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UNIVERSITY
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COLLEGE
OF
MEDICINE
1956
1958

UNIVERSITY
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BULLETIN

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CONTENTS

CALENDAR	4
BOARD OF TRUSTEES	6
ADMINISTRATIVE OFFICERS	7
COMMITTEES	7
THE COLLEGE OF MEDICINE	9
Location, History, and Administration	11
Clinics and Hospitals	12
Library	15
Museums	15
Recreational Facilities	15
Requirements for Admission	15
Requirements for Graduation	19
Special Courses for Physicians	20
Fees and Expenses	20
Scholarships, Prizes, and Loan Funds	22
Lectureships	25
Organizations	25
Plan of Instruction	27
Courses of Instruction	29
OCCUPATIONAL THERAPY	69
POSTGRADUATE DIVISION	79
FACULTY OF THE COLLEGE OF MEDICINE	83
INDEX	119

CALENDAR

1956 — FALL QUARTER

October 1, Mon.....First day of classes
November 22, Thurs.....Thanksgiving Day
December 22, Sat.....Quarter ends

1957 — WINTER QUARTER

January 7, Mon.....First day of classes
March 30, Sat.....Quarter ends

1957 — SPRING QUARTER

April 1, Mon.....Quarter begins for third-year
and fourth-year students
April 8, Mon.....Quarter begins for first-year
and second-year students
May 30, Thurs.....Memorial Day
June 21, Fri.....Commencement exercises

1957 — SUMMER QUARTER

July 1, Mon.....First day of classes
July 4, Thurs.....Independence Day
September 2, Mon.....Labor Day
September 21, Sat.....Quarter ends

1956-1958

1957 — FALL QUARTER

September 30, Mon.....First day of classes
November 28, Thurs.....Thanksgiving Day
December 21, Sat.....Quarter ends

1958 — WINTER QUARTER

January 6, Mon.....First day of classes
March 29, Sat.....Quarter ends

1958 — SPRING QUARTER

March 31, Mon...Quarter begins for third-year
and fourth-year students
April 7, Mon.....Quarter begins for first-year
and second-year students
May 30, Fri.....Memorial Day
June 20, Fri.....Commencement exercises

1958 — SUMMER QUARTER

June 30, Mon.....First day of classes
July 4, Fri.....Independence Day
September 1, Mon.....Labor Day
September 20, Sat.....Quarter ends

UNIVERSITY OF ILLINOIS

BOARD OF TRUSTEES

MEMBERS EX OFFICIO

William G. Stratton, Governor of Illinois, Springfield
 Vernon L. Nickell, Superintendent of Public Instruction,
 Springfield

Term 1951-1957

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 Herbert B. Megran, 300 W. Front Street, Harvard
 Timothy W. Swain, 912 Central National Bank Building,
 Peoria 2

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Term 1953-1959

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 Mrs. Doris S. Holt, 330 E. Sixth Street, Flora
 Park Livingston, 3600 N. River Road, Franklin Park

Term 1955-1961

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 Mrs. Frances B. Watkins, 5831 Blackstone Avenue,
 Chicago 37
 Kenney E. Williamson, Sixth Floor, Lehmann Building,
 Peoria 2

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 Clarence W. Weldon, Treasurer, Chicago

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- DONALD JOSEPH CASELEY, A.B., M.D., Associate Dean of the College of Medicine and Medical Director of the Research and Educational Hospitals
- WILLIAM FRANCIS KELLOW, B.S., M.D., Assistant Dean of the College of Medicine
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- MAURICE JACKSON GALBRAITH, M.S., Dean of Student Affairs
- FRANKLIN CHARLES DALLA, B.S., Director of the Chicago Illini Union
- BUFORD HALL, B.S., M.D., Director of Health Service for the Chicago Departments
- PAUL A HARTLEY, A.M., Associate Director of Nonacademic Personnel

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Standing Committees

The Dean is *ex officio* a member of all standing committees and the Recorder is *ex officio* a member of the Admissions and Promotions Committees.

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Correlation Conference for Sophomores. N. B. ROBERG (Chairman), T. R. SHERROD and W. V. WHITEHORN (Co-chairmen), J. B. FULLER, W. J. GROVE, G. M. HASS, R. V. HOFFMAN, M. H. HOLLENDER, W. F. KELLOW (*ex officio*), J. H. MCCLURE, M. V. NOVAK, C. M. SMITH.

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Gehrmann Lectureship. M. V. NOVAK (Chairman), G. G. JACKSON, H. J. SHAUGHNESSY.

Instruction. W. V. WHITEHORN (Chairman), E. J. BEATTIE, H. T. CARMICHAEL, D. J. CASELEY, J. B. FULLER, G. G. JACKSON, W. F. KELLOW, E. F. LIS, W. F. MENGERT, G. R. MOON (*ex officio*), R. D. RAY, N. B. ROBERG, T. R. SHERROD, P. H. SIMER, R. J. WINZLER, H. J. ZIMMERMAN.

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Medical Education for National Defense. G. V. BYFIELD (Chairman), BEULAH C. BOSSELMAN, M. H. LEPPER, J. P. MARBARGER, J. H. SCHNEEWIND.

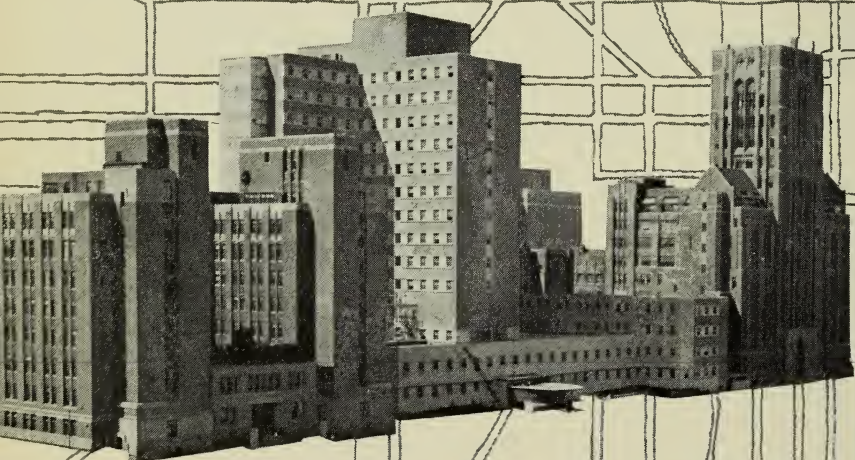
Postgraduate Instruction. ARMAND LITTMAN (Chairman), D. J. CASELEY, P. H. HOLINGER, A. F. LASH, B. W. LICHTENSTEIN, H. L. WILDER.

Premedical Conference. R. J. WINZLER (Chairman), N. J. COTSONAS, L. J. LEBEAU, W. F. KELLOW (*ex officio*), G. R. MOON (*ex officio*), T. R. SHERROD.

Promotions (First and Second Years). M. V. NOVAK (Chairman), H. C. BATSON, M. J. GALBRAITH (*ex officio*), R. M. KARK, W. F. KELLOW, C. A. KRAKOWER, G. R. MOON (*ex officio*), P. E. NIELSON, S. R. M. REYNOLDS, T. R. SHERROD, G. E. WAKERLIN, R. J. WINZLER.

Promotions (Third and Fourth Years). ERIC OLDBERG (Chairman), E. J. BEATTIE, N. J. COTSONAS, V. C. FRED, M. J. GALBRAITH (*ex officio*), W. F. KELLOW, C. A. KRAKOWER, C. N. LAMBERT, C. A. LINKE, G. R. MOON (*ex officio*), P. E. NIELSON, I. M. ROSENTHAL, MAX SAMTER, F. E. TROBAUGH.

Senior-Faculty Dinner Planning. C. A. JOHNSON (Chairman), BEULAH C. BOSSELMAN, LOUISE B. FASSLER, M. J. GALBRAITH, G. R. MOON, J. C. PLAGGE, E. E. VICHER.



UNIVERSITY OF ILLINOIS

CHICAGO PROFESSIONAL COLLEGES

LOCATION, HISTORY, AND ADMINISTRATION

Location

The College of Medicine of the University of Illinois is located in the great medical center on the west side of Chicago. The work of the College, together with the related work in the Colleges of Dentistry and Pharmacy, the School of Nursing, and the Graduate College, is centralized in the laboratory building facing on Polk, Wood, and Wolcott Streets. The campus, which is about two miles west of the Loop, or main business district of Chicago, can be reached conveniently by elevated train, bus, or automobile.

The University buildings contain the administrative offices of the College, the library, lecture rooms, classrooms and large laboratories for classwork, numerous small laboratories for individual research, an autopsy amphitheater, and the clinics and hospitals. The last include the University of Illinois Research and Educational Hospitals and the Neuropsychiatric Institute. The Illinois Eye and Ear Infirmary is located near the campus. This infirmary is operated jointly by the University and the State Department of Public Welfare. Close to the college campus are the Cook County Hospital, Chicago-State Tuberculosis Hospital, West Side Veterans Administration Hospital, and Presbyterian Hospital, all of which are used for student teaching.

History

The College of Medicine was originally an independent, proprietary institution. It opened October 14, 1881, as the College of Physicians and Surgeons of Chicago. It became affiliated with the University of Illinois under a lease in 1897, and in 1900 its name was changed to the College of Medicine of the University of Illinois. Not until 1913, however, did it become an integral part of the University. During most of its early history it was located north of Cook County Hospital in the area now forming the Louis Pasteur Park. In 1931 the College was moved to its present quarters in the west unit of the Dentistry-Medicine-Pharmacy Building. In 1941 the Presbyterian Hospital became affiliated with the University and members of the staff of Rush Medical College were incorporated into the faculty of the College of Medicine.

Graduate work has been offered in the Chicago departments since

1915. The present work of the Graduate College is described in detail in a separate announcement.

Administration

Under the laws of the state of Illinois, the Board of Trustees of the University of Illinois is composed of eleven members, including the Governor and the Superintendent of Public Instruction, who serve *ex officio*, and nine members elected by the people of the state for terms of six years.

Under the University Statutes adopted by the Board of Trustees, the affairs of the University are administered by the President, the Provost, the Vice-President, the deans and directors of the colleges and schools, and other administrative officers, most of whom are located on the main campus of the University at Urbana. The Chicago departments are organized in three colleges — Medicine, Dentistry, and Pharmacy — each having its own dean. In addition, there is a School of Nursing. The Professional Colleges are under the general administrative supervision of the Vice-President.

The University Senate, composed of members of the faculty who have full professorial rank and others who are in charge of departments, both at Urbana and in Chicago, is the legislative organization of the University. In Chicago there is a Professorial Faculty composed of all members of the staff of professorial rank, together with a group of designated administrative officers.

Members of the faculty in each college cooperate with those in other colleges of the University, both in instruction and in research. Staff members of the basic science departments in the College of Medicine participate in the instructional programs for students of dentistry, nursing, pharmacy, and occupational therapy.

CLINICS AND HOSPITALS

Clinics

The clinics (outpatient departments) of the College of Medicine, located in the Research and Educational Hospitals and in the Neuropsychiatric Institute, are divided into the following departments: allergy, arthritis, cardiology, dermatology, hospital dentistry, medicine, neurology, obstetrics and gynecology, ophthalmology, orthopaedics, otolaryngology, pediatrics, psychiatry, surgery, tumor, urology, and vascular surgery. The clinics are supervised by, and to a great extent operated by, physicians

at attending or associate attending levels. The clinics are used for teaching in the clerkship years.

Research and Educational Hospitals

The Research and Educational Hospitals, planned and built for teaching and investigation, are four separate buildings, either contiguous or connected by tunnels. The units consist of (1) the original Research and Educational Hospital, containing most of the outpatient clinics, several patient units including obstetrics and gynecology, the Recovery Room, and part of the operating suite; (2) the Illinois Surgical Institute for Children (Department of Orthopaedic Surgery), with an entire orthopaedic service including three full floors plus physical therapy and related services; (3) the Neuropsychiatric Institute, with facilities for the Department of Psychiatry and for the Department of Neurology and Neurological Surgery; and (4) the new hospital addition, a fourteen-story building housing most of the central hospital services, administration offices, dietary service, radiology, some of the clinical laboratories, and eight floors of patient units. The total hospital bed capacity is 810 beds and 50 bassinets.

Clinical services of the Research and Educational Hospitals are supervised by department heads and the attending physicians and surgeons of the College of Medicine faculty. A substantial number of members of the clinical faculty devote full time to the College of Medicine and the hospitals.

Central Laboratories. Laboratory facilities of the Research and Educational Hospitals are consolidated in the Central Laboratories, with sections devoted to chemistry, serology, bacteriology, hematology, and endocrine assay.

Emergency Service. The most modern facilities for emergency care are incorporated in the Emergency Service, which was activated in 1954. It is on the ground floor of the hospital addition and is readily accessible both from the ambulance drive and from the central hospital elevators to other medical facilities.

The service includes four examining rooms, two minor surgeries, complete laboratory and X-ray facilities, two overnight observation wards, and utility and office space.

Many of the cases handled by the service are brought in by the city police and fire departments. It offers both an interesting and diversified experience for the house staff and is a hospital admission source of cases needing urgent attention.

Radiology. The radiology department contains a diagnostic section, which serves both outpatients and hospital patients, and a therapy section with 50-140 kv, 200 kv, and 400 kv installations. A large amount of radium is available. The department operates its own radon seed plant and is responsible for the isotope program. A 23 million volt betatron is housed in a separate building, accessible through the underground tunnel system.

Recovery Room. The latest concepts of intensive postoperative therapy are embodied in the Recovery Room. Personnel highly trained in postoperative care are in constant attendance. On occasion, patients from the medical service are moved to the Recovery Room when there is a demonstrated need for intensive care.

Special Laboratories. The electrocardiography laboratories are operated by the Department of Medicine and the electroencephalography facility by the Department of Neurology and Neurological Surgery. Other special laboratories are partly research in nature, with their services available for patient care on request.

Other Hospitals

Division of Services for Crippled Children. This is an independent unit of the University operating a state-wide program of medical, surgical, corrective, and other services and facilities for diagnosis, hospitalization, and aftercare for children who are crippled or who are suffering from conditions which lead to crippling. The division conducts 120 outpatient diagnostic, orthopaedic, speech and hearing, and treatment clinics throughout the state each year and provides hospitalization in a half dozen medical centers. It maintains close working relationships with the College of Medicine and the Research and Educational Hospitals, where a considerable number of its patients are provided with care. It cooperates also with the State Department of Public Health, the State Department of Public Welfare, the State Superintendent of Public Instruction, the State Division of Vocational Rehabilitation, and the State Commission for Handicapped Children.

Illinois Eye and Ear Infirmary. The infirmary, operated jointly by the State Department of Public Welfare and the University, is located outside the medical center district. It has 120 beds and is staffed by members of the College of Medicine faculty. It is used almost exclusively for resident and postgraduate training.

Presbyterian Hospital. This hospital, a neighboring institution with

450 beds, is affiliated with the University of Illinois and is used for clinical teaching.

LIBRARY

The library contains a comprehensive collection of standard and modern works on medical, dental, nursing, and pharmaceutical subjects, with over 1,100 current periodicals and more than 120,000 books on the shelves at present. It is used by professional men throughout the Chicago area, and its service to the University staff and student body is supplemented by loan arrangements with other libraries.

MUSEUMS

The College has two museums: the Anatomy Museum, including gross anatomy, histology, embryology, and neurology; and the Pathology Museum, including gross specimens for purposes of instruction of undergraduate and postgraduate students of medicine.

RECREATIONAL FACILITIES

The social and recreational center for students, alumni, and faculty members is the Chicago Illini Union Building, 715 South Wood Street. Its facilities include a cafeteria, grill, soda fountain, browsing room, music room, gymnasium, meeting rooms, and game rooms. Intramural sports under a trained director are encouraged, and facilities and equipment are available for softball, touch football, horseshoes, tennis, archery, wrestling, fencing, badminton, basketball, handball, and ping pong. Through special arrangements, the swimming pools of the nearby Y.M.C.A and Y.W.C.A. are available to students. An annual golf tournament is held at a nearby golf course.

REQUIREMENTS FOR ADMISSION

General Regulation and Directions

Applications for admission to the College of Medicine should be addressed to the Examiner and Recorder, 1853 West Polk Street, Chicago 12. Official credentials, covering all collegiate and secondary school work done by the applicants, must be sent directly from each institution attended. Since space limitations make it necessary to restrict enrollment, applicants should have their credentials mailed to the Examiner and Recorder as early as possible. Applications are received between September 1 and January 1. New classes enroll only in the fall, usually late in Sep-

tember. Veterans of World War II may attend under the provisions of Public Law 16 (Rehabilitation) or Public Law 346 (G.I. Bill of Rights). The College of Medicine is also approved for Public Law 550. Under each act the government pays all school charges and provides all required books and equipment. The veteran should consult the Office of Veterans Administration to apply for the benefits of any of these acts.

Physical Examination and the Health Service. Each applicant who is tentatively accepted must have a physical examination by the University Health Service on this campus. The Office of the Examiner and Recorder arranges an appointment for this examination. A chest X-ray is also taken at this time.

It is strongly urged that each applicant, after acceptance, visit his family physician and dentist in order to attend to such items as dental repairs and fitting for glasses. After school has begun, the student finds it difficult to have these essential things done without loss of time from classes. It is also required that each student have a smallpox vaccination and immunizations for typhoid fever, tetanus, and diphtheria within a five-year period prior to registration, and his family physician must certify the dates on which these procedures were done.

A tuberculin test is done on all medical students during the first year of medical school, and subsequent tuberculin tests are done if indicated. All students are urged to have annual chest X-rays during their years in medical school, and a chest X-ray is required before graduation.

Selection of Applicants. As the capacity of the College of Medicine is limited, selection of applicants is necessary. Selection is made by the Committee on Admissions. No student is considered who is on scholastic probation or who has been dropped for poor scholarship from the last institution attended prior to seeking admission to the University of Illinois. Applicants who meet in full the course and grade average requirements are considered by the committee. In selecting applicants, the committee takes into consideration such factors as scholastic records, the schools and colleges previously attended, letters of recommendation, especially from teachers in the laboratory sciences, health records, aptitude tests, and such special examinations and other qualifications as may be determined by the committee. All students are considered on the basis of individual qualifications without regard to race, color, creed, or national origin. Other factors being equal, preferential consideration is given to applicants who are residents of Illinois. A personal interview with the committee or its representative is required. Invitations to register are sent to approved applicants.

Deposits. Each applicant who is assigned a place in any class in the College of Medicine is required to make a deposit of \$15 within two weeks of the date of notification that he will be admitted. This deposit is applied on fees assessed against him at the time of registration. Failure to pay this deposit within the specified time subjects the applicant to forfeiture of his place. No deposit is returned unless the applicant notifies the Examiner and Recorder, at least thirty days before the time for registration, that he will not be able to enter. The Dean of Admissions is authorized to make refunds after that time when, in his judgment, the circumstances so justify.

Renewing Applications. An applicant who has been accepted for admission but fails to enroll, and who wishes to enter in a subsequent year, must reapply for admission and must meet all the requirements in force at the time of the new application.

Special Requirements

The course requirements as stated below must be met in full before admission will be granted. No student is considered by the Committee on Admissions who does not present evidence that he will complete all course requirements before July 1 of the year in which he expects to enroll. No conditions are permitted, but the Committee on Admissions may waive full compliance with the course specifications if the applicant possesses unusually high qualifications. It is the general policy of the College to encourage a broader education and courses of a cultural nature rather than excessive amounts of science. It is felt that the sciences required for admission are sufficient and that additional studies in this field may well be left for the medical years in order that the pre-medical years may be devoted to the social sciences and humanities.

Each applicant for admission to the College of Medicine, in addition to the general regulations and directions stated above, must have at least 88 semester hours of acceptable credit from a recognized college or university, exclusive of hygiene, military science, and physical education. The 88 semester hours must be distributed as follows:

	HOURS
Chemistry (including, in addition to introductory courses, four hours of organic chemistry and three hours of quantitative analysis)	14
Physics (including laboratory work in mechanics, heat, sound, light, and electricity)	8
Biology (including laboratory courses in general and vertebrate zoology or comparative anatomy and general embryology)	10
English	6

Foreign language.....	6
This requirement is waived if the student has completed four years of one language in high school or completes the last course of a two-year college language sequence. Non-science courses must replace the language in such a case.	
Social science and humanities (at least three hours from each area).....	16
The following are considered social sciences: anthropology, economics, geography, history, political science, psychology, sociology; humanities include literature (American, English, foreign), advanced composition, philosophy, and the fine arts.	
Electives (at least four hours non-science).....	28
<i>Total</i>	88

Grade Requirement. Each applicant for admission to the College of Medicine must have attained a scholastic average of not less than 3.5, or its equivalent as determined by the University of Illinois for institutions using a different grading system.¹

The Medical College Admission Test. All candidates are required to take the Medical College Admission Test recommended and approved by the Association of American Medical Colleges.

Preference to Illinois Residents. In considering applications for admission to the College of Medicine, the Committee on Admissions gives preference to candidates who are residents of Illinois. Nonresidents must present outstanding scholastic records to be considered. Places in the first-year class are assigned to applicants from Cook County and to applicants from Illinois outside of Cook County in the proportion which each area bears to the total population of the state according to the latest federal census, provided that if at any time the quota from either area is not filled the remaining places may be assigned to applicants from the other area. On this basis at the present time approximately 50 per cent of the places in the first-year class are assigned to applicants from Cook County and 50 per cent to applicants who are residents of Illinois outside of Cook County.

In determining the priority of admission of an applicant to the Chicago Professional Colleges, the Committee on Admissions takes into account the nature and apparent permanency of his residence in this state, the residence of his parents, and all other facts which are relevant

¹ This rule is interpreted according to the number of passing grades. In a system of four passing grades, A, B, C, and D, the literal grades are translated into figures as follows: A = 5; B = 4; C = 3; D = 2; E (failure) = 1. Where there are more or fewer than four passing grades, computation is adjusted to make the same level of accomplishment apply. The individual grades are multiplied by the respective number of semester hours which each represents, and the sum of these products is divided by the total number of semester hours taken. In the case of repeated courses, both grades earned are counted in computing the average.

in making the facilities of the Chicago Professional Colleges available first to the young men and women of Illinois.

Admission with Advanced Standing. It is possible to admit a limited number of transfer students to the third-year class in the College of Medicine. In considering applications, the Committee on Admissions gives preference to the candidates who present the strongest scholastic records. Except in unusual cases, no student who is on probation or who has been dropped for any reason from a medical school is considered for admission.

REQUIREMENTS FOR GRADUATION

A candidate for a degree in the College of Medicine must meet the following general requirements: (1) show evidence of good moral character, (2) pay all indebtedness to the University, (3) obtain passing grades in all courses of the required curriculum, and (4) have grades of "C" or better in at least three-fourths of the total hours taken in the College and counted toward the degree.¹

Degrees

In addition to the general requirements for graduation, the special requirements for each degree in the College of Medicine are as follows:

Bachelor of Science in Medicine. Awarded to students who have completed the first two years of work in the College of Medicine.

Doctor of Medicine. Awarded to students who have completed four years in attendance at an approved medical school, of which at least the last year must have been at the University of Illinois, and who have completed the prescribed curriculum and passed the comprehensive examinations required at the end of the fourth year.

Bachelor of Science in Occupational Therapy. Awarded on completion of a ten-semester curriculum, six semesters of which are taken on the Urbana campus and an equivalent of four on the Chicago campus and in affiliated hospitals. A minimum total of 180 quarter hours (120 semester hours) is required for graduation.

Honors

A student who complies with the requirements for graduation, and who attains in all work presented for the degree the average grade speci-

¹ Where it is necessary to translate percentages into literal grades, the following values are used: A, 92 to 100%; B, 85 to 91%; C, 75 to 84%; D, 70 to 74%; E, below 70%, failure.

fied below, may be recommended by the University Senate for the honors stated: for an average grade of not less than 4.35, graduation with honors; for an average grade of not less than 4.75, graduation with high honors. The honors awarded are noted on the diploma and in the Commencement program.

SPECIAL COURSES FOR PHYSICIANS

The College of Medicine offers a number of special advanced courses which are open to graduates of approved medical schools. The fee for each full-time course is \$150 a quarter, plus laboratory and clinic fees. Where registrations are accepted for one-half a course or less, the tuition fee is \$100 a quarter. Members of the staff of the Research and Educational Hospitals and of Cook County Hospital and Morgue are permitted to attend the lectures in these courses without paying the tuition fee. These courses are not accepted by the Graduate College for advanced degrees, and no grades are given, but the University keeps a record of the registrations and of the time spent by each registrant. Descriptions of the courses appear in a special postgraduate section at the end of this catalog.

FEES AND EXPENSES

All fees are payable in full when the student registers. The Board of Trustees of the University reserves the right to change the fees at any time through publication in the annual announcements.

A schedule of fees for regular full-time students in the College of Medicine is listed below. One-third of each year's fees is paid at registration for each quarter.

	FIRST YEAR		SECOND YEAR		THIRD YEAR		FOURTH YEAR	
	<i>Ill.</i>	<i>Non-Ill.</i>	<i>Ill.</i>	<i>Non-Ill.</i>	<i>Ill.</i>	<i>Non-Ill.</i>	<i>Ill.</i>	<i>Non-Ill.</i>
Tuition Fee.....	\$132.00	\$351.00	\$132.00	\$351.00	\$132.00	\$351.00	\$132.00	\$351.00
Building and Laboratory Service Fee...	183.00	252.00	183.00	252.00	231.00	300.00	231.00	300.00
Union Building Service Charge	10.50	10.50	10.50	10.50	10.50	10.50	10.50	10.50
<i>Total.....</i>	<i>\$325.50</i>	<i>\$613.50</i>	<i>\$325.50</i>	<i>\$613.50</i>	<i>\$373.50</i>	<i>\$661.50</i>	<i>\$373.50</i>	<i>\$661.50</i>

Late Registration Fee. Former students who register after the regular registration days in any quarter pay a late registration fee of \$5.

Special Examination Fee. For any special examination to remove a failure, the fee is \$5.

Study-List Change Fee. A fee of \$1 is charged for every study-list change slip issued later than the Saturday noon following the regular registration days. This rule applies also to registration for electives after the dates specified for regular registration.

Transcript Fee. Each student who has paid all his University fees is entitled to receive without charge one transcript of his record. For each additional transcript the fee is 50 cents.

Fees for Part-Time Students. Residents of Illinois registered for partial programs of two hundred clock hours or less in a quarter in the College of Medicine pay tuition fees at the rate of \$4 and building and service fees at the rate of \$5 for twenty-five clock hours or fraction thereof; non-Illinois students pay tuition fees at the rate of \$14 and building and service fees at the rate of \$7 for twenty-five clock hours or less. Undergraduate students taking more than two hundred clock hours in a quarter pay the full tuition and building and service fees.

Auditing Fee. For each twenty-five clock hours or fraction thereof, persons not connected with the University who are permitted to audit pay \$10 if residents of Illinois, \$40 if nonresidents. Permission to attend must be obtained from the Postgraduate Division, Office of the Dean, and the student must register with the Examiner and Recorder.

Fees for Unclassified Students. Fees charged unclassified students are based on the amount of work taken.

Service Charge for Deferred Fees. In cases of necessity, students may arrange for deferment of fees by calling at the Business Office, Room 128, Dentistry-Medicine-Pharmacy Building. A service charge of 10 per cent of the amount of fees deferred, but not to exceed \$2 a quarter, is charged for the privilege of deferring fees, and this charge must be paid on the day of registration. If deferred fees are paid in full within ten days after registration, the service charge is refunded except that a minimum service charge of \$1 is retained by the University in all cases. The service charge, not less than one-third of the current quarter's fees, and all fees and charges from previous terms must be paid on the day of registration. Failure to make payment of fees within the time limits cancels at once the privilege of attending classes. Registration is not completed until fees are paid in full, and no credit is recorded for class-work completed unless all fees and other charges have been paid in full. Deferred payment of fees delays the completion of registration but extends the privilege of attending classes pending payment of fees in full as described above.

Refunds. If a student withdraws within ten days after the beginning of instruction, his total fees (except the \$15 deposit) are refunded. After ten days and before the expiration of one month, a refund of two-thirds of his total fees is made. After one month and before the expiration of two months, a refund of one-third of these fees is made. After the expiration of two months, no part of the fees is refunded.

Expenses

From \$90 to \$125 a month may be regarded as adequate for the ordinary living expenses of a student in Chicago, exclusive of books, clothing, railroad fare, and miscellaneous needs. The expense for books varies between \$50 and \$100 a year. Each student is required to provide himself with a compound microscope, a haemocytometer, and an ophthalmoscope. Members of the faculty check the condition of the microscopes upon request.

SCHOLARSHIPS, PRIZES, AND LOAN FUNDS

Scholarships for Medical Students

Berkelhamer Scholarship. A scholarship has been established by the family of Dr. Ralph C. Berkelhamer, graduate of the University of Illinois College of Medicine, who died as a prisoner of war in October, 1944. One hundred dollars is awarded yearly to a deserving and needy student.

General Assembly Scholarships. Each member of the General Assembly may make one nomination annually. Nominations must be filed with the President of the University on or before the opening day of the semester or term in which the scholarships are to become effective. Holders of these scholarships are exempt from the tuition fees but not from other fees.

Patrick and Bertha Mooney Memorial Scholarships. A fund, which was established in 1949, provides scholarships totaling \$400 yearly to worthy students in need of financial assistance. There is no obligation for repayment, although students who receive assistance have the privilege of contributing to the fund after graduation.

Rea Scholarships. The annual income from a fund established in 1899 by the will of Dr. Robert Laughlin Rea is used for four scholarships, awarded by a committee of the faculty, to help pay the tuition fees of needy students. First-year students are not eligible.

State Military Scholarships. Acts of the General Assembly provide scholarships for veterans of World War I and World War II who are not receiving financial assistance for educational purposes from the federal government and who, at the time of enlistment, were residents of Illinois or students in the University of Illinois. These scholarships exempt the holders from the tuition fees in any department of the University. The General Assembly also has established one scholarship in each county for descendants of veterans of World War I and one scholarship for descendants of veterans of World War II. These scholarships are awarded by competitive examination held on the first Saturday in April.

Williamson Memorial Scholarship. Members of the faculty and friends of the late Professor Charles Spencer Williamson, for many years Head of the Department of Medicine, have established an endowment fund, the income from which is used annually as a scholarship for a capable and needy student, either graduate or undergraduate. The award each year is made by the Dean of the College of Medicine and the Head of the Department of Medicine.

Yarros Scholarship. This fund was established by the husband of the late Dr. Rachelle S. Yarros, who until her death was Professor of Social Hygiene. Varying amounts are available for deserving and needy students.

Scholarships for Occupational Therapy Students

Illinois Federation of Women's Clubs Scholarships. Established in 1944, this fund provides scholarships granted on the basis of financial need. Application may be made to the Dean of Admissions, who is chairman of the committee which selects the candidates. Recommendations of the Dean of the College of Medicine are considered in selecting candidates for the awards. Special consideration is given deserving applicants who are recommended by the Illinois Federation of Women's Clubs.

Women's Auxiliary of the Chicago Professional Colleges Scholarships. Established in 1951, this fund provides scholarships for students who have completed a portion of the curriculum offered in Chicago and who are in financial need.

Prizes for Medical Students

Beaumont Memorial Prize. The late Dr. Frank Smithies, of Chicago,

endowed an annual prize in memory of William Beaumont, the famous surgeon of the nineteenth century. The prize is awarded by a committee to the student or faculty member of the College of Medicine who submits the best original work on diseases of the alimentary tract.

Borden Undergraduate Research Award. The Borden Company Foundation, Inc., has established a \$500 yearly prize for the student in the graduating class who during any year while enrolled in the College of Medicine as a candidate for the M.D. degree is judged to have performed the most meritorious piece of research. Originality and thoroughness of the research are of primary consideration.

Sigma Xi Prize. A prize of \$25 is awarded annually by the Society of Sigma Xi for the best piece of scientific investigation on the part of any student in the College of Dentistry, the College of Medicine, or the Chicago departments of the Graduate College, who is without a salaried appointment by the Board of Trustees of the University.

Loan Funds for Medical Students

Several loan funds have been established for the benefit of worthy students who are in need of financial aid in order to finish their courses. Information concerning these funds and the regulations governing loans may be obtained from the office of the Dean of Student Affairs.

Emergency Loan Fund. Emergency loans are made to students in the College of Medicine from a fund established by students and staff members and from general University loan funds.

Long-Term Loan Fund. Long-term loans are limited to \$500 for any one year and a maximum of \$1,000 while a student is attending the University of Illinois College of Medicine. Long-term loans bear interest at the rate of three per cent from the date of the loan to maturity.

Chicago Memorial Hospital Women's Auxiliary Loan Fund. This fund, established in 1955 by a gift from the Women's Auxiliary of the Chicago Memorial Hospital, is for loans to needy and qualified students in the College of Medicine.

Loan Funds for Occupational Therapy Students

Kellogg Loan Fund. This fund was established in 1944 by a gift from the W. K. Kellogg Foundation.

LECTURESHIPS

Bacon Lectureship. In 1927, when Dr. Charles S. Bacon, on reaching the retiring age, was made Professor of Obstetrics, *Emeritus*, members of the faculty and friends of Dr. Bacon contributed the sum of \$5,000 to found the Charles S. Bacon Lectureship in Obstetrics. The income from this fund is used to defray expenses of lectures given each year at the College of Medicine.

Davis Lectureship. The inauguration of the D. J. Davis Lectureship on Medical History was held on October 15, 1943. These lectures are maintained by interest on the funds subscribed by friends and associates of Dr. Davis, Professor of Pathology and Dean of the College of Medicine, *Emeritus*, who served the University for thirty years.

Gehrmann Lectureship. In 1924, in accordance with the will of Mrs. Albertina Gehrmann, widow of Dr. Adolph Gehrmann, for many years Professor of Bacteriology and Hygiene in the College of Medicine, the sum of \$10,000 was given for the support of an annual lectureship in memory of Dr. Gehrmann.

Hedblom Lectureship. In 1938 the Phi Beta Pi medical fraternity contributed a fund to establish an annual lectureship in honor of Dr. Carl Hedblom, who until his death was Professor of Surgery and Head of the Department. Dr. Hedblom had an international reputation in the field of chest surgery.

Irish Lectureship. In 1946 the Eta Chapter of Alpha Kappa Kappa fraternity endowed an annual lectureship as a memorial to the late Head of the Department of Pediatrics, Dr. Henry Irish.

ORGANIZATIONS

Alumni Association of the College of Medicine

PRESIDENT: Robert French '11, 715 Lake Street, Oak Park, Illinois.

PRESIDENT ELECT: John P. O'Neill '06, 30 North Michigan Avenue, Chicago.

FIRST VICE-PRESIDENT: Carl A. Hedberg '26, 2051 North Sedgwick Street, Chicago.

SECOND VICE-PRESIDENT: Louis Schultz '24, 25 East Washington Street, Chicago.

NECROLOGIST: Walter Simmonds '14, 224 South Marion Street, Oak Park, Illinois.

SECRETARY-TREASURER: George W. Moxon '26, 2416 North Neva Avenue, Chicago.

COUNCILLORS (1957)

Rocco V. Lobraico '40, 30 North Michigan Avenue, Chicago.

Charles D. Krause '36, 738 West 79th Street, Chicago.

John J. Thometz '45, 1614 North Larabee Street, Chicago.

Clifford P. Sullivan '31, 8000 South Racine Avenue, Chicago.

COUNCILLORS (1958)

Jerry J. Kearns '26, 3432 West Jackson Boulevard, Chicago.

Paul E. Grabow '02, 2348 North Seminary Street, Chicago.

Harry K. Waddington '42, 7200 South Exchange Avenue, Chicago.

George J. Kidera '38, 21 Northgate Road, Riverside, Illinois.

COUNCILLORS (1959)

William Jacobs '33, 4051 West North Avenue, Chicago.

Franklin S. Wilson '12, 5510 West Washington Street, Chicago.

Rudolph V. Sintzel '05, 8142 Lincoln Avenue, Skokie, Illinois.

Edward V. F. Donovan '20, 2373 Lincoln Avenue, Chicago.

Alpha Omega Alpha

The international honorary medical fraternity Alpha Omega Alpha was founded at the College of Medicine in 1902. High ranking students in the third and fourth years are eligible for election to membership.

FACULTY ADVISER. Joel S. Handler.

MEMBERSHIP AWARDS IN 1955-1956. Seniors: Jackson E. Cagle, Jr., William P. Glezen, Fred H. Helpenstell, Sherwin A. Kabins, Kermit B. Knudson, Gerald Lee, Wayne E. Mathy, Jack S. Remington, Andrew P. Somlyo.

Juniors: Reinhardt H. Bodenbender, Marvin Freedman, Jerome M. Hershman, Robin R. Johnston, Robert S. Kaminski, William Meltzer, George B. Murphy, Luis R. Owano.

Phi Mu Phi

Phi Mu Phi is an honorary musical fraternity open to students of the Chicago Professional Colleges who take an active part in the musical organizations.

FACULTY ADVISER. Dean S. Rossett.

Pi Kappa Epsilon

Pi Kappa Epsilon is a national honorary medical fraternity to which members are elected on the basis of character, personality, and professional qualities.

FACULTY ADVISERS. Warren H. Cole and Hugo O. Deuss.

Sigma Xi

In 1928 the Society of Sigma Xi granted a charter for the organization of a chapter of this society at the College of Medicine. Its object is the promotion of research.

PLAN OF INSTRUCTION

The program of the student during his four years in the College of Medicine is arranged according to the plan shown on page 28.

During the first two years the curriculum provides for study of the fundamental medical sciences, including anatomy, biochemistry, microbiology, pathology, pharmacology, and physiology. Throughout these courses, emphasis is placed upon correlation and integration. Didactic or lecture-type instruction is kept at a minimum. Weekly correlation conferences are held. While these exercises are conducted by panels of faculty members, student participation is encouraged. Clinical application of basic science information is presented as frequently as possible. Clinical instructors frequently participate in the teaching programs in the basic science departments. To provide the student with an appreciation of the importance of personal factors in clinical medicine, the Department of Psychiatry presents instruction during the first two years as an introduction to subsequent clinical instruction. Instruction in physical diagnosis is offered throughout the second year.

The third and fourth years are devoted to the study of clinical subjects. The teaching is carried on almost exclusively in clinical clerkships in the University hospitals and affiliated hospitals and outpatient departments. The clerkships provide an opportunity for the student to examine and observe patients under supervision. Students are taught in small groups (five to six).

Instruction during the third year emphasizes the application of basic sciences to clinical medicine; the foundation for a fundamental approach to diagnostic study and management of patients is developed. The students are assigned as clinical clerks to the wards of the Research and Educational, Cook County, Presbyterian, and other hospitals. During this period they spend six weeks in pediatrics, six weeks in obstetrics, and twelve weeks each in medicine and surgery.

In the fourth year the emphasis is on the practical application of the fundamental concepts acquired throughout the preceding three years. In the clinics and wards the student is given more responsibility although supervision is continued. The student has two six-week clerkships:

obstetrics and gynecology, and pediatrics. There are two twelve-week clerkships, one in general surgery and one in medicine. During the fourth year, each student is required to attend for three full quarters.

FIRST AND SECOND YEARS

Subjects	First Quarter		Second Quarter		Third Quarter		Total Clock Hours
	Didactic	Laboratory	Didactic	Laboratory	Didactic	Laboratory	
FIRST YEAR							
Anatomy (Gross).....	26	55	26	55	24	50	236
Histology.....	26	55	26	55	0	0	162
Neuroanatomy.....	0	0	0	0	24	50	74
Biological Chemistry....	36	60	36	60	0	0	192
Integration and Correlation.....	18	0	18	0	18	0	54
Physiology.....	36	55	37	44	30	50	252
Psychiatry.....	12	0	12	0	12	0	36
Emergency Surgery....	11	0	11	0	10	0	32
Total.....	165	225	166	214	118	150	1038
SECOND YEAR							
Bacteriology.....	36	68	24	44	0	0	172
Examination of the Patient	10	33	10	33	5	33	124
Pathology.....	46	75	46	75	52	66	360
Pharmacology.....	23	0	34	33	41	22	153
Preventive Medicine....	7	0	5	0	11	0	23
Psychiatry.....	12	0	12	0	0	0	24
X-ray	0	0	0	0	11	0	11
Correlation.....	11	0	22	0	20	0	53
Total.....	145	176	153	185	140	121	920

THIRD AND FOURTH YEARS

Subjects	Third Year	Fourth Year
MEDICINE CLERKSHIP SERVICE.....	12 weeks	12 weeks
Includes the following specialties:		
Dermatology		
Internal Medicine		
Sociology and Jurisprudence		
Neurology		
Pathology, Autopsies		
Psychology		
Public Health		
Therapeutics		
SURGICAL CLERKSHIP SERVICE.....	12 weeks	12 weeks
Includes the following specialties:		
Anesthesia		
Anatomy, Topographic		
Neuro-Surgery		
Ophthalmology		
Orthopaedics		
Otolaryngology		
Roentgenology		
Surgery		
Urology		
OBSTETRICS AND GYNECOLOGY.....	6 weeks	6 weeks
PEDIATRICS.....	6 weeks	6 weeks

A limited number of students may register for a clerkship in the summer quarter.

The surgical and medical clerkships provide for instruction and clinical experience in related special fields. Thus, the surgical clerkship includes orthopaedic, plastic, oral, urologic, neurologic, otorhinologic, ophthalmologic, and vascular surgery; the medical clerkship provides for instruction in psychiatry, neurology, radiology, hematology, gastroenterology, cardiology, and dermatology. Related institutions such as the Intensive Treatment Center for venereal diseases, LaRabida Jackson Park Sanitarium for rheumatic fever, and the Municipal Contagious Disease Hospital are all utilized advantageously for teaching purposes. While assigned to the obstetrical service, students attend and assist in deliveries within the hospital and accompany and assist the obstetrical resident in deliveries in the home. Some time is spent in clinics and laboratories studying such topics as surgical anatomy, surgical pathology, and tropical medicine.

Examinations of a comprehensive nature are given at the end of the second and fourth years. They are designed to measure the student's ability to integrate and evaluate the material he has learned.

Because of the intensive plan of instruction, students are not permitted to do work which interferes with the fulfillment of the requirement of the curriculum. Outside work is permissible by special arrangement with the Dean of Student Affairs.

COURSES OF INSTRUCTION

The following list of courses is in alphabetic order of departments. Names of staff members in each department are listed by rank. The courses offered in each department are listed numerically. In the description of each course the letters F, W, Sp, and S indicate the fall, winter, spring, and summer quarters, and the periods of time required each week apply to the whole quarter unless the number of weeks is stated. Credit is calculated in clock hours.

ANATOMY

Professors: REYNOLDS (Head of Department), COOPER (*Emeritus*), KAMPMEIER (*Emeritus*), SIMER, VON BONIN, ZIMMERMANN.

Associate Professors: JORANSON (*Emeritus*), KREHBIEL, PLAGGE, ZECHEL.

Assistant Professors: CIPOLLA, HOSPODAR, KHEDROO, A. LAVELLE.

Research Associate: F. W. LAVELLE.

Instructors: CASELLA, MONSEN, REBHUN, VICARI.

The course in anatomy is offered in the fall, winter, and spring quarters of the freshman year. It includes gross anatomy (301) which continues throughout the year, microscopic anatomy (302), including embryology, during the first two quarters, and neuroanatomy (303) in the final quarter. In each of these courses the essential morphological features and characteristics of the human body are emphasized, developmental concepts are stressed, and attention is given to situations in which morphological and functional interdependence is prominent. An attempt is made to emphasize the developmental and ever-changing aspects of living structures at different phases of life, although most emphasis is necessarily laid upon the adult human organism.

The course consists for the most part of four hour lectures a week followed by laboratory periods of two and one-half hours dissection or microscopic study of tissues. Throughout the course an attempt is made to so integrate and synthesize the material that the student sees that growth and development represent life processes, and that these are, therefore, intimately related to the courses of the medical curriculum which follow, especially to pathology, medicine, and surgery.

The department shares responsibility with other basic science departments, cooperating with appropriate clinical departments, in a one and one-half hour weekly correlation course of study. This runs throughout the year. It is designed to cut across boundaries of the classical disciplines of anatomy, physiology, and biochemistry in order to provide an opportunity for students to obtain a glimpse of the horizons of knowledge which lie ahead, not yet in text books, or which remain to be discovered.

The Department of Anatomy offers certain elective courses for those medical students who, with an aim toward research, wish more extended opportunity for study in this basic science. Arrangements for such courses must be made on an individual basis with the staff.

For anatomical courses offered in the College of Dentistry and in the Graduate College, refer to the appropriate catalogs.

Required Courses — First Year

301. **Human Gross Anatomy.** Dissection of the human body, consideration of development of organ systems, X-ray anatomy. 260 hours; continuous through F, W, and Sp. A. LAVELLE, MONSEN, REYNOLDS, SIMER, ZIMMERMANN, and others.
302. **Human Histology.** Microscopic study of the tissues and organs, histogenesis, placentation, early embryonic development. 178 hours; continuous through F and W. KREHBIEL, PLAGGE, REBHUN, REYNOLDS, VON BONIN, and others.

303. **Human Neuroanatomy.** Gross and microscopic structure, development of the central nervous system. 88 hours; Sp. KREHBIEL, PLAGGE, REYNOLDS, VON BONIN, and others

Elective Courses

306. **Cytology.** Consideration of the structure of cells as revealed by cytochemical methods; application of phase microscopy and electron microscopy to cytology. Four hours each week; F. Staff.
310. **Microscopic Technic.** Preparation of tissues for study; methods of maceration, decalcification, injection, corrosion, preservation, fixation, embedding, sectioning, staining, clearing, mounting, etc. Registration limited. To be arranged; F. Staff.
326. **Preparations for Anatomical Museum.** The creation of special dissections, reconstructions, models, and demonstration specimens for the anatomical teaching collection, requiring skill, ingenuity, neatness, and accuracy in execution. Limited to two or three qualified students. To be arranged; F, W, and Sp. HOSPODAR.

BACTERIOLOGY

Professors: NOVAK (Head of Department), KEMPF.

Associate Professor: MEYER.

Assistant Professors: FORSTER (Lecturer), LEBEAU, MARKOWITZ, SCHERR, VICHER.

Instructors: ANDERSON, HANSON, KROEGER.

Assistant: KNOLL.

The course in bacteriology is offered during the first and second quarters of the second year. Instruction is based upon a study of fundamental principles involving morphology, physiology, and distribution of bacteria and related organisms. Following a brief study of representative members of nonpathogenic and useful species, the student is introduced to the study of harmful bacteria and the nature of the diseases which they produce, together with antibiotic concepts and immunological and serological considerations. Pathogenic fungi, rickettsia, and viruses are included in this beginning course, as well as organisms responsible for tropical diseases. Special emphasis is placed on the ubiquitous nature of bacteria so that the student can more readily comprehend epidemiological problems and the host-parasite relationship in subsequent courses. Laboratory, diagnostic, and other practical procedures are stressed as well as the interpretation of laboratory results in the light of other clinical evidence. During the second quarter, hospitalized patients with typical bacteriological entities are presented as diagnostic problems and demonstrations are conducted emphasizing important

historical data and the need for further laboratory studies. The taking from patients of specimens for bacteriological analysis by proper aseptic technique is demonstrated.

Undergraduate courses in bacteriology are also offered to dentistry, occupational therapy, nursing, and pharmacy students.

A full program of graduate work including individual courses in virology, mycology, immunology, and immuno-chemistry is offered to medical students who can qualify for graduate work leading to the M.S. or Ph.D. degree. Complete descriptions of courses and requirements for registration of medical students for concurrent work toward a graduate degree in bacteriology are contained in the Graduate College catalog. Properly qualified medical students are encouraged to gain experience in the field of research through pursuit of graduate studies and to discuss these possibilities with members of the bacteriology staff.

Required Courses — Second Year

- 320. Bacteriology and Related Microbiology.** A study of the general morphology, metabolism, serology, and pathogenicity of the important microbial agents of communicable diseases; action of germicidal agents, sulfonamides, penicillin, streptomycin, and other antibiotics; factors in parasitic offense and mechanisms of host defense. Detailed consideration of pathogenic cocci. Two lectures and four hours of laboratory each week; F. NOVAK and others.
- 325. Bacteriology and Related Microbiology.** Continuation of Bacteriology 320. Detailed consideration of intestinal pathogens, water and milk sanitation, anaerobes, viruses, pathogenic fungi, protozoa, spirochetes, rickettsia, and other microbial agents of disease. Serological methods and routine hospital laboratory procedures applicable to diagnosis of communicable diseases. Three lectures and six hours of laboratory each week; W. KEMPF and others.

Required Courses — Occupational Therapy Students

- 324. General Bacteriology.** General aspects of bacteriology and immunology including emphasis on preventable aspects of communicable diseases. This course is designed entirely for the needs of occupational therapy students. Three lectures and three hours of laboratory each week for four weeks; F. VIGHER.

Required Courses — Nursing Students

- 101. Bacteriology and Related Microbiology.** A study of the general morphology, serology, and pathogenicity of the important microbial agents of disease; action of physical, germicidal, chemotherapeutic, and antibiotic

agents; consideration of pathogenic cocci, intestinal pathogens, anaerobes, tuberculosis and related diseases, viruses and rickettsiae, pathogenic fungi, and spirochetes; sanitary bacteriology—milk, water, and food; public health aspects of communicable disease. Three lectures and four hours of laboratory each week; Sp. SCHIERR, VICHIER.

BIOLOGICAL CHEMISTRY

Professors: WINZLER (Head of Department), BERGEIM, BINKLEY, MACFADYEN, WELKER (*Emeritus*).

Associate Professors: ABOOD, HILLER, HORWITT, RAFELSON.

Assistant Professors: BARKULIS, JOHNSON, KOHN, MYERS, STEWART.

Research Associates: HAYASHI, JEFFAY, SHAPIRA.

Assistant: BROWN.

Research Assistants: BORNSTEIN, BURR, KRAKOW, WELLS.

Biological chemistry is a science in which the fundamental knowledge of the various branches of chemistry (analytical, inorganic, organic, and physical), physics, and biology are combined to seek a better understanding of the chemical constitution and processes of the living organism. The subject has two general aspects which extend the sciences of anatomy and physiology into the realm of the invisible: chemical structure is anatomy at the molecular level; the study of the chemical processes of the living organism is physiology at the molecular level.

The two-quarter course (fall and winter quarters of the first year) in biological chemistry required of all students in the College of Medicine emphasizes the chemical and biological principles involved in living processes with as much integration with the other preclinical sciences (anatomy, bacteriology, pathology, pharmacology, and physiology) and clinical sciences as seems feasible at this stage of medical education. A foundation is laid upon which the student can and must build as other subjects are studied, if the full benefits of chemistry to clinical medicine are to be obtained. Stated in more detail, the course has four principal objectives: (1) to teach students to think in terms of chemistry about physiological processes and changes; (2) to develop an appreciation of quantitative thinking and action; (3) to develop technical skill; (4) to familiarize students with some of the more important clinical chemical methods and the interpretation of the data thereby obtained.

Opportunities are offered, to the extent that facilities are available, for advanced study and research for those students who wish further knowledge and experience in this field. Such students should consult the department for further information.

Required Courses — First Year

301-302. Biological Chemistry. Chemistry of the constituents of tissues and body fluids, and current methods for their qualitative and quantitative determination; digestion, absorption, and intermediary metabolism of lipids, proteins, and carbohydrates in health and disease, and the role of hormones, vitamins, and enzymes in the regulation of these processes; the application of this knowledge to the problems of disease. Lectures, conferences, and laboratory. Seven hours each week; F and W. Staff.

CLINICAL SCIENCE

Professor: IVY (Head of Department).

Assistant Professor: JOHNSON.

Research Associates: GORDON, GRANT, HWANG, LIN, NELSON.

Assistant: STRUB.

Clinical science is a branch of medical science which seeks answers to the problems of the cure and prevention of disease by applying a multilateral approach. Observations and experiments are made on living men as well as dead men, on man as well as animals, and at the bedside as well as in the laboratory. In undergraduate teaching, a course in the physiology of symptoms is offered to the senior medical students, attempting to apply the basic medical sciences in explaining the manifestations of disease. The graduate teaching program includes a large research program on a variety of subjects, using the broad approach indicated above.

Required Courses — Fourth Year

375. Physiology of Symptoms. This course provides a systematic analysis of the principal symptoms of disease or the subjective and objective manifestations of disturbed bodily functions. The prerequisites are anatomy, physiology, pharmacology, and pathology. One hour each week; W and Sp. Ivy.

DERMATOLOGY

Professors: CARO (Head of Department), CORNBLEET, EBERT (*Emeritus*), MITCHELL (*Emeritus*), ROSTENBERG, SENEAR (*Emeritus*), WEBER.

Associate Professors: FINNERUD, NEUHAUSER, PERLSTEIN, SHELLOW.

Assistant Professors: BUCHHOLZ, FALK, GRIFFITH, HAEBERLIN, ROBIN, SLEPYAN, SZYMANSKI, TAVS, WEICHSELBAUM.

Associate: HETREED.

Instructors: BARSKY, BECKER, OLIVER, OMENS, RUBIN, VANDER LAAN, WILLIAMS, YAFFE.

Assistants: BIELINSKI, BRENNAN, DERBES, MCCRANEY, PEARL, SPINKA.

Research Assistant: POWERS.

Diseases of the skin comprise a high proportion of the cases seen by many physicians. To acquaint the student with the many disorders that may affect the skin, the subject of dermatology is taught throughout the junior year.

Some cutaneous disorders, such as tumors or contact-type dermatitis, are local in nature. Others may be cutaneous windows shedding light on some underlying systemic disease. It is important that all physicians, general practitioners and specialists alike, become familiar with these cutaneous clues as diagnostic aids in the search for internal disease.

A course of didactic lectures covering the most common diseases of the skin is given during the junior year. Emphasis is placed on the diseases most likely to be seen in practice and on those having systemic significance. Consideration is also given to the diagnosis and treatment of various types of industrial dermatitis and to the preventive measures that are available. Colored lantern slides both of clinical cases and of histopathologic sections are used extensively as visual aids.

The student spends an additional fifty-two hours in the outpatient clinic during which time he sees cases of all the diseases available during the four weeks he is in attendance. He is also taught many of the laboratory methods needed for diagnosis and some of the operative procedures used in treatment.

It is the aim in presenting this course to equip the student by the end of his junior year to recognize the most common dermatoses, to be familiar with the cutaneous aspects of systemic diseases, and to be able to administer and prescribe treatment intelligently.

Required Courses — Third Year

350. Didactic Lectures on Dermatology and Syphilis. Lectures, lantern slides, and demonstrations. One hour each week; continuous through F, W, and Sp. CARO, CORNBLEET, EBERT, TAVS, WEBER.

351. Dispensary. Two two-hour and two three-hour periods each week for four weeks, and one hour each week for twelve weeks; F, W, and Sp. CORNBLEET, ROSTENBERG, and others.

MEDICAL ILLUSTRATION

Professors: GOODWIN (Head of Department), JONES (*Emeritus*).

Assistant Professors: HOSPODAR, LINDEN.

Instructor: MORGAN.

For Anatomy: Professor SAMUEL REYNOLDS and associates.

For Pathology: Professor CECIL A. KRAKOWER and associates.

For Dentistry: Professor STANLEY D. TYLMAN.

The Department of Medical Illustration is organized as a department of the Chicago Professional Colleges and has working relations with the Colleges of Dentistry, Pharmacy, and Medicine, and the School of Nursing.

The department conducts service functions related to illustration, photography, and use of visual aids. In addition, it conducts an educational program as outlined in the specific course mentioned.

Special Course for Non-Medical Students

100. Medical Illustration. A course of twenty-two months in illustration as applied to the broad field of medical education, with students working in the Illustration Studios with the staff artists and in the Department of Anatomy, is offered to candidates presenting evidence of thorough training in art and a sound scholastic record, including a bachelor's degree. The first year of study includes (1) a course in anatomy taken with medical students consisting of lectures and laboratory work in embryology, histology, neurology, and gross anatomy, including the dissection of an entire human body; (2) drawing in detail of dissections, bones, and organs of the body prepared in conjunction with anatomy studies; (3) special consideration of accurate observation and interpretation of technics and media of illustration such as wash drawing, crayon, pen and ink, and water colors; (4) lettering and the preparation of charts and graphs as applied to medical subjects. The second year includes practical applications of illustration in the widest sense to publishing and medical education. Emphasis is placed on the theories of visual instruction and the growing responsibility of the illustrator for the improvement of medical education through all types of graphic media by means of (1) illustrative projects in anatomy, surgery, and pathology, working from autopsy, operating room, and dissection material; (2) opportunity to participate in the planning, design, and preparation of lay and scientific exhibit material; (3) adaptation of various materials to three-dimensional representation of scientific subjects. Technics for working clays, waxes, plaster, plastics, moulages, wood, and metals are among those studied. A special course in pathology is included in the second year. Except in unusual cases application for admission to the course must be made in person to the head of the department. The number of students which may be accepted in any one year is limited to five. The first half-year is a probation period for all students. Hours: 9:00 a.m. to 5:00 p.m. Monday to Saturday noon inclusive. Fee for each quarter: residents, \$72.83; nonresidents, \$81.83.

MEDICAL SOCIAL WORK

Associate Professor: PREUCIL (Head of Department).

Assistant Professors: BINNS, FORD, GONNERMAN, LARGE, TAYLOR, WAITE.

Instructors: ALEXANDER, FASSLER, FRASER, GOSS, HUGER, KAHN, LANE, LOCKHART, MERRIFIELD, ROBERTS, SELTZER, SYNEK.

Assistants: BROWNLEE, OLIN.

Since modern medical practice recognizes the significance of social factors in the etiology of disease and in the efficacy of therapy, departments of social work are frequently found in hospitals, clinics, and schools of medicine. The Department of Medical Social Work is organized for the purposes of working with physicians in the consideration and modification of these factors in the individual situations under medical supervision and of helping medical students to recognize these factors and to develop knowledge and skills for dealing with them.

As members of the medical team, the staff of the department participates in the instructional program throughout the clinical years. More formalized instruction is carried on in conjunction with the Departments of Medicine, Pediatrics, and Psychiatry during the students' clerkships therein. In this instruction, the social worker has primary responsibility for the following content: (1) concepts of the patient as a member of a family and a community, and in the light of these, the meaning to him of his illness and the limitations it imposes; (2) a methodology for interviewing patients and families in order to discover relevant social factors and the meaning of illness, and to help them to deal with these; (3) the resources in the community best suited for helping the patient deal with social problems related to his illness. Members of the social work staff of Cook County Hospital, who are faculty members, participate in the teaching of third-year students during the medical clerkship at Cook County Hospital.

Some members of the Department of Medical Social Work, in the units in the Neuropsychiatric Institute and the Illinois Eye and Ear Infirmary as well as in the general hospital, participate in the teaching of students of nursing and occupational therapy. The department also conducts the clinical instruction of certain medical and psychiatric social work students enrolled in the graduate schools of social work of the University of Illinois and the University of Chicago.

MEDICINE

Professors: DOWLING (Head of Department), ABRAMSON, ALVAREZ (*Emeritus*), ARKIN, S. H. ARMSTRONG, BIRCH, CAMPBELL, EYERLY, FISHBEIN (Lecturer), FOLEY, FREILICH, HERRICK (*Emeritus*), HIBBS (*Emeritus*), HICK,

HOFFMAN (Lecturer), E. E. IRONS (*Emeritus*), KARK, KEETON (*Emeritus*), F. B. KELLY, LUETH, PFUETZE, W. E. POST (*Emeritus*), RAPPAPORT, SLOAN, S. STRAUSS (*Emeritus*), THOMAS, VANDERKLOOT.

Associate Professors: AFREMOW, BARTON, A. BERNSTEIN, FELDMAN, FISCHER, FRANKLIN, B. GOLDBERG (*Emeritus*), GRAY, JACKSON, KENDRICK, KNIGHT, LENDRUM,¹ LICHTENSTEIN, LIMARZI, LUNDY, LUSK, MONTGOMERY, MOSKO, J. T. PAUL, O. PAUL, PERLSTEIN (*Emeritus*), PILOT, RABENS, ROBERG, SAMTER, SAPHIR, SCHWARTZ, SHEAFF, SINGER (Lecturer), SPELLBERG, STEIGMANN, STUPPY, TAYLOR, TRAUT, TRIMMER, W. L. WOOD, ZIMMERMAN.

Assistant Professors: AKRE, AMTMAN, BAUMEISTER, BEDINGER, BERG, M. M. BERNSTEIN, BERRY, BERRYMAN, BEST, BLISS, BOIKAN, BREBIS, BREUHAUS, BYFIELD, CALLOWAY, COTSONAS, CRETICOS, DAKIN, DARLING, DEUSS (Lecturer), W. G. DEYOUNG, DURHAM (Lecturer), EHRLICH, FRANZBLAU, GARDINER (*Emeritus*), GOLDWASSER, GRAETTINGER, GREGORIO, GUMBINER, GUNTHER, HALL, HELLER, HILKEVITCH (*Emeritus*), HORWITZ, HUTCHISON, E. N. IRONS, JANSON, KELLOW, KESLER, KINNEY, KORN, LAWRENCE, LEVITT, H. A. LEVY, LEWIS, LITTMAN, McMILLAN, MEHLMAN, NECHELES, NELSON, B. PEARLMAN, L. PERLMAN, POLLEY, J. POST, PREC (Lecturer), RANKE, RAVENNA, ROBERTSON, A. H. ROSENBLUM, S. H. ROSENBLUM, SCHICK, SCHOENBERGER, SIGLIN, SPIES, STECK, E. K. STRAUS, TROBAUGH, VANCE, WEINER, WILLOUGHBY, WILSON (*Emeritus*), WOLF, YELLEN, ZIVIN.

Associates: BAIRD, BROWN, GALT, GROSZ, KIRBY, J. L. WILLIAMS.

Research Associate: BOARD.

Instructors: ANAST, B. E. ARMSTRONG, BALDWIN, BALLARD, BEINAR, BRIKEY, BRONSKY, BROWNS, CARTON, CASAS,² CATALDO, CHERTACK, CIRZAN, DEJONG, H. D. DEYOUNG, DYNIEWICZ, FARAGO, FEINHANDLER, FELIX, FITZPATRICK, FORD, B. W. FOX, FOXWORTHY, GIANASI, E. E. GOLDBERG,² GOLDMANN, GRAHAM, GRIMELLI, GUNNAR, GURVEY, HAND, HARTLEY, HARTMAN, HUNTER, JOHNSTON, KAISER, B. M. KAPLAN, E. KAPLAN, F. B. KELLY, JR., KIRKLAND, KLEIN, KOFMAN, KRASNOW, LEE, LEVINE, G. LEVY, LOUIS, LUBIN, MAMBY, McNEIL, MEREDITH, MUENSTER, NEWMAN, O'BRIEN, ODEN, OHRINGER, POBANZ, PRESLEY, PYLE, REMENCHIK, RHETTA, RUGGIE, SAPIENZA, SCALA, SCHLESINGER, SCHNAER, SCHUTZ, STEVENS, J. F. STRAUSS, TARUN, TIMBLIN, VALANTIEJUS, VIL, VONDRASEK, WEISBERG, WEISS, J. WILLIAMS, WISS, WOLFE, WOLTER, W. S. WOOD, YONAN, ZVETINA.

Assistants: ADATTO, ALEXANDER, BECKER, BENEDEK, BLACKWELL, BRETZ, CARREON, COHEN, DING, DOWNS, DWYER, EDGREN, FIRESTEIN, R. E. FOX, FRENSTER, FRUIN, GHRIST, HOCKMAN, IGLITZEN, MALNAK, MASLOW, MAYNARD, MOODY, MOORHOUSE, NAGAMANI, NARUT, NEMEC, H. A. PAUL,

¹ On leave of absence.

² On leave of absence for military service.

PERLIA, POIRIER, POSKE, RAPP, RASHIN, REEDER, ROMANO, ROSE, RYAN, RYU, SALBERG, SHAFER, SHRIFTER, THRIFT.

Research Assistants: CONNER, HUGHES, INOUE, MELODY, POLLAK, RIX.

Every person has a particular and individual manner of reacting toward disease and each type of disease has its particular way of acting in people. It is the first objective of the Department of Medicine to help the student learn about these particular reactions of persons and diseases by (1) giving the student access to certain facts which he must learn, and more important (2) encouraging the student to develop an attitude of inquiring after facts, grouping them together into a systematic body of knowledge, and acting upon them. The second objective of the Department of Medicine is to help the student to relate health and disease to the life of the patient as a whole and to the patient's place and activities in society. The third objective is to help the student understand the problems inherent in delivering proper medical care to patients afflicted with the medical diseases.

In the sophomore year the student is taught the techniques (interviewing, history taking, physical diagnosis, and laboratory procedures) which are necessary to the making of a complete evaluation of a patient. He is also given a course of lectures designed to bridge the gap between the basic sciences and disease conditions.

In the junior year the student works on the wards as a clinical clerk. He is responsible to an associate attending physician for a history, physical examination, and certain laboratory examinations on each patient assigned to him. The instructor pays particular attention to the manner in which he takes the history and physical examination and how he writes them up and presents them. Certain cases are also presented at the rounds of the attending physicians and at the informal clinics and seminars which are held several times each week. There are also two lectures each week which cover the major diseases within the field of internal medicine which are intended to supplement the student's textbook and collateral reading.

In the senior year the student works as a clinical clerk on the wards or in the outpatient department of the Research and Educational, Presbyterian, Illinois Central, or Grant Hospitals. Here he is a member of the team which includes the house officers and attending physicians who render medical care. The student is also expected to participate in seminars and conferences in relation to his patients.

Required Courses — Second Year

325. Physical Diagnosis. Instruction in the physical examination of the patient. Normal findings emphasized, to be defined by patients with abnormal findings. Small sections and a large clinic and demonstration period, three hours a week; continuous through F, W, and Sp. Instructors in surgery, ophthalmology, and gynecology cooperate with the Department of Medi-

cine. An additional two hours a week during spring quarter is devoted by the Department of Psychiatry to instruction in interviewing of patients. BALLARD, BECKER, A. BERNSTEIN, BERRY, BRIXEY, BRONSKY, FOXWORTHY, GOLDWASSER, HELLER, B. M. KAPLAN, E. KAPLAN, KARK, KELLOW, LOUIS, McNEIL, MOORHOUSE, MUENSTER, POLLEY, REEDER, SAXTON, SCHUTZ, VALANTIEJUS, WILLOUGHBY, WOLTER, W. S. WOOD, and others.

326. **Clinic.** Clinic and lectures demonstrating the application of physiology and the other basic sciences to patients. Sp.

Required Courses — Third Year

350. **Systematic Study of Important Diseases.** Lectures covering the major diseases in the field of internal medicine. Two hours each week; continuous through F, W, and Sp. ANAST, BEST, BIRCH, BREBIS, CARTON, DAKIN, DOWLING, FELDMAN, B. W. FOX, FRANKLIN, GRAETTINGER, HELLER, HICK, JACKSON, KELLOW, LEPPER, LEVITT, LICHTENSTEIN, LIMARZI, LITTMAN, LOUIS, MONTGOMERY, O. PAUL, PFUETZE, REMENCHIK, ROBERG, RYAN, SAMTER, SCHOENBERGER, SCHWARTZ, SHAUGHNESSY, SPELLBERG, STEIGMANN, W. S. WOOD, ZIMMERMAN, ZIVIN.
354. **Bedside Teaching Clerkship.** Cook County Hospital. Students are directed in their work by the associates and attending men of this hospital. Twenty-seven hours each week; F, W, and Sp. AFREMOW, BECKER, A. BERNSTEIN, M. M. BERNSTEIN, BLACKWELL, BROWNS, CASAS, CATALDO, COHEN, COTSONAS, FELDMAN, FISCHER, FOLEY, B. FOX, FRANKLIN, GALT, E. E. GOLDBERG, GOLDMANN, GRAHAM, GUMBINER, GUNNAR, HALL, HAND, HORWITZ, KAISER, KINNEY, KRASNOW, KUBOTA, LAWRENCE, LEE, G. LEVY, LITTMAN, MAMBY, MASLOW, MONTGOMERY, B. PEARLMAN, L. PERLMAN, SAPHIR, SAPIENZA, SCHOOLMAN, STEIGMANN, YELLEN.

Required Courses — Fourth Year

377. **Outpatient Clerkship.** Research and Educational and Presbyterian Hospitals. One-sixth of class. Eighteen hours each week for six weeks; F, W, and Sp. AKRE, BALDWIN, BARTON, BAUMEISTER, BEINAR, BERG, BERRYMAN, BLISS, BREBIS, BREUHAUS, BROWNS, CALLOWAY, CAMPBELL, CARTON, CHERTACK, CIRZAN, DAKIN, DARLING, H. D. DEYOUNG, DURHAM, DWYER, EHRLICH, EYERLY, FEINHANDLER, FELDMAN, FISCHER, FORD, GARVIN, GRAETTINGER, GRAY, GREGORIO, GRIMELLI, GROSZ, GUNTHER, GURVEY, HARTLEY, HICK, HUNTER, HYDE, IGLITZEN, E. N. IRONS, JOHNSTON, KARK, F. B. KELLY, F. B. KELLY, JR., KESLER, KIRBY, W. W. KIRKLAND, JR., KLEIN, KNIGHT, LEVINE, LEVITT, G. LEVY, H. A. LEVY, LEWIS, LICHTENSTEIN, LOUIS, LUBIN, LUNDY, MAYNARD, McMILLAN, MEHLMAN, MEREDITH, MOORHOUSE, MOSKO, MUENSTER, NARUT, NECHELES, NELSON, O'BRIEN, ODEN, OHRINGER, J. T. PAUL, O. PAUL, B. PEARLMAN, PFUETZE,

POBANZ, POIRIER, POLLAK, J. POST, PRESLEY, PYLE, RANKE, RAPPAPORT, RAVENNA, RHIETTA, ROBERG, ROMANO, A. H. ROSENBLUM, SAMTER, SCALA, SCHICK, SCHLESINGER, SCHOENBERGER, SCHOOLMAN, SCHWARTZ, SHEAFF, SIGLIN, SPELLBERG, STECK, STEIGMANN, E. K. STRAUS, J. F. STRAUSS, JR., STREICHER, STUPPY, TARUN, TAYLOR, THOMAS, TRAUT, TRIMMER, TROBAUGH, VANCE, VIL, VONDRASEK, WEINER, WEISS, J. WILLIAMS, J. L. WILLIAMS, WISS, A. WOLF, C. K. WOLFE, JR., YONAN, ZIVIN, ZVETINA, and others.

378. **Clerkships.** Presbyterian, Illinois Central, Grant, and Research and Educational Hospitals. Minimum of 39 hours each week for six weeks; F, W, and Sp. Additional time may be required at the discretion of the chief of the medical service to which the student is assigned. AKRE, AMTMAN, S. H. ARMSTRONG, JR., BALDWIN, BARTON, BAUMEISTER, BEDINGER, BERG, A. BERNSTEIN, BEST, BIRCH, BLISS, BREBIS, BREUHAUS, CALLOWAY, CAMPBELL, CARTON, CHERTACK, COTSONAS, DARLING, H. D. DEYOUNG, DOWLING, EYERLY, FELDMAN, FISCHER, FOLEY, FRANKLIN, FRANZBLAU, GIANASI, GOLDMANN, GRAETTINGER, GRAY, HALL, HAND, HELLER, HICK, HUNTER, HUTCHISON, E. N. IRONS, JACKSON, KAISER, KARK, KELLOW, F. B. KELLY, F. B. KELLY, JR., KESLER, KIRBY, W. W. KIRKLAND, JR., KNIGHT, KRASNOW, LEPPER, LEVITT, LICHTENSTEIN, LITTMAN, LUNDY, MEHLMAN, MONTGOMERY, MUENSTER, NELSON, O'BRIEN, J. T. PAUL, O. PAUL, J. POST, PRESLEY, RANKE, REMENCHIK, ROBERG, RUGGIE, SAMTER, SCHICK, SCHOENBERGER, SCHOOLMAN, SCHWARTZ, SHEAFF, SIGLIN, SLOAN, SPELLBERG, STECK, STEIGMANN, E. K. STRAUS, STUPPY, TARUN, TAYLOR, THOMAS, TRAUT, TRIMMER, TROBAUGH, VANCE, VANDERKLOOT, VIL, WEINER, J. WILLIAMS, WISS, C. K. WOLFE, JR., ZIMMERMAN, and others.

Required Courses — Occupational Therapy Students

324. **Lectures on Medical Conditions.** Lectures and clinics in medicine for occupational therapy students. Twelve hours of lecture and twelve hours of clinic; Sp. BEST, BREBIS, CRETICOS, LEVITT, RANKE, SAMTER, STREICHER, W. S. WOOD, ZIVIN.

NEUROLOGY AND NEUROLOGICAL SURGERY

Professors: OLDBERG (Head of Department), AVERY, BAILEY, F. A. GIBBS, LICHTENSTEIN, MACKAY, VERBRUGGHEN.

Associate Professors: GUSTAFSON, SUGAR.

Assistant Professors: AMADOR, ARNOLD, DIAMOND (*Emeritus*), GARVIN, HAASE.

Research Associates: MASON, STAMPS.

Instructors: NILGES, SCHWARTZ, TEXTOR, ZOLT.

Assistants: BASILE, GEGALIAN, MANFREDI,¹ MARTIN, PRESTI, SALIBI, WILLIAMS.

Research Assistants: E. L. GIBBS, MYRIANTHOPOULOS, THOMAS.

Neurology and neurological surgery are the sciences having to do with the diagnosis and treatment of organic medical and surgical conditions affecting the central and peripheral nervous system. The teaching for undergraduate students in the College of Medicine therefore includes instruction in the junior year, which first embraces the fundamentals of neurology, including the complete neurological examination of the individual, together with the interpretation of the abnormal findings which exist when various parts of the nervous system are affected; and lectures on the medical diseases affecting the nervous system, including their symptoms, course, pathological basis, and treatment.

In the senior year, instruction includes a course in clinical pathological correlation of the various processes affecting the nervous system, and a course is given in the fundamentals of neurological surgery.

Graduate work is also offered in neuropathology and clinical neurology.

Required Courses — Third Year

- 350. Fundamentals of Neurology.** A correlation of the anatomy, physiology, pathology, and clinical examination of the nervous system. One hour each week; F. LICHTENSTEIN, SUGAR.
- 351. Neurology Clinic.** Systematic lectures and clinical demonstrations of the principal diseases of the nervous system. One hour each week; W. LICHTENSTEIN, MACKAY.

Required Courses — Fourth Year

- 375. Neurology Clinic.** Lectures and demonstrations of clinical cases. One hour each week; F and W. BAILEY.
- 376. Neurological Survey.** Lectures and demonstrations of neurosurgical problems. One two-hour period each week; F. Twelve weeks for entire class. OLDBERG.
- 377. Dispensary.** Six two-hour periods each week; F, W, and Sp. Two weeks for each sixteenth of the class. Staff.

Required Courses — Occupational Therapy Students

- 324. Neurological Conditions.** A review of anatomy and physiology of the nervous system; types of neuromuscular and sensory disturbances; clinical presentations. Twenty hours a quarter; F and Sp.

¹ On leave of absence for military service.

EPILEPSY CONSULTATION CLINIC

Professor: F. A. GIBBS.

Assistant Professors: GROSSMAN (Pediatric Consultant), E. HAASE.

Research Associates: MASON, STAMPS.

Assistants: E. L. GIBBS, THOMAS.

OBSTETRICS AND GYNECOLOGY

Professors: MENGERT (Head of Department), ALLEN, BROWNE (*Emeritus*), FALLS (*Emeritus*), LASH.

Associate Professors: BOYSEN, KLAWANS, KOBAK, PRIEST.

Assistant Professors: ANDRESEN, BAUM, BENENSOHN, BOLEY, CAREY, DARO, DELEE, DRAA, FARA, FITZGIBBONS, FRED, GLENNER, HAMMOND (*Emeritus*), KRAUSE, LANG (*Emeritus*), LIFVENDAHL, LOBRAICO, MAUZEY, NETTLES, REZEK, ROOS, SERED, C. O. SMITH, SPIEGEL, STONE (*Emeritus*), TETON, WADDINGTON, WALSH, WOLFF.

Instructors: ANGELL, COOPERMAN, FARLEY, GOLLIN, HADZLARISTIDES, KAMINETZKY, LONG, MOUZAKEOTIS, MULLEN, NYMAN,¹ PAYNE, PETERSON, RUTGARD, SAMPSON, SHOLDER, H. E. SMITH, SYLVESTER, SZAMOS, VLASIS, WALLHEISER, WELSH.

Assistants: AIMONE, BARTELS, BLACK, BOUER, BURCHELL, COZAD, DAHLBERG, DIGIULIO, ELLIS, FAHRENBACH, FALLOON, FARMANS, FOX, FRICKE, HENDRIX, KAHN, KASEMIRESCH,¹ KENWICK, LAVIERI, LUTZ, MANOUSAKIDIS, McDERMOTT, OBERHELMAN, OLECK, PILL, ROSNER, SYKORA, TREADWELL, TRUCHLY, WIERSMA, ZUMMO.

The two divisions of this specialty are completely integrated and are presented to the student as a unit. There is introductory instruction during the second year.

During the junior year, the major disease concepts are taught. All junior clerkships are served at the Research and Educational Hospitals. Practical instruction is divided two weeks each on the obstetric wards, the gynecologic wards, and the outpatient clinic. Each junior student is expected to live in the hospital for one week of the clerkship period. During this week, he is on call for all events transpiring in the birth rooms.

There is no didactic teaching in the senior year. With the exception of six groups of six students each assigned to clerkships at Presbyterian Hospital, all students serve clerkships at the Research and Educational Hospitals. Practical instruction is divided two weeks each on the obstetric wards, the gynecologic wards, and the outpatient clinic.

¹ On leave of absence for military service.

Required Courses — Second Year

325. **Obstetric and Gynecologic Anatomy and Physiology.** An introductory course consisting of two lectures a week is given to the entire class; Sp. FREDa, KAMINETZKY, MENGERT, NETTLES.

Required Courses — Third Year

350. **Principles of Obstetrics and Gynecology.** The anatomy, physiology, and pathology of the female genital tract and the major disease concepts are presented in a series of integrated lectures. Entire class, one hour a week throughout the academic year; F, W, and Sp. FREDa, KAMINETZKY, MENGERT, NETTLES.
351. **Demonstration Clinic.** As opportunity permits, patients presenting those diseases germane to the specialty are presented by the clerk assigned to the patient and discussed by members of the staff. Entire class, one hour a week throughout the academic year; F, W, and Sp. Clinical Staff.
352. **Clerkship.** Each one-sixth of the class spends six weeks on the obstetric-gynecologic service. The time is divided two weeks each on obstetrics, gynecology, and outpatient clinic. During one of the two weeks on obstetrics the student lives in the hospital and is on call for all events transpiring in the birth rooms. This takes precedence over all other duties. The student also attends ward rounds, assists the senior clerks, and attends the courses listed below. Members of the clinical staff attend each of the three divisions of the department and give practical bedside and clinic instruction. Members of the resident staff are available at all times for practical instruction and discussion. F, W, and Sp. Clinical Staff.
353. **Ward Classes.** Teaching is done at the bedside using representative patients. Two hours a week during the junior clerkship; F, W, and Sp. Clinical Staff.
354. **Cook County Clerkship.** Students in small groups are detached to attend case presentations and demonstrations at Cook County Hospital. F, W, and Sp. LASH.
375. **Manikin.** The mechanics of the birth process are taught on the manikin. Two hours a week during the junior clerkship; F, W, and Sp. Clinical Staff.

Required Courses — Fourth Year

377. **Clerkship.** Each one-sixth of the class spends six weeks on the obstetric-gynecologic service. The time is divided two weeks each on obstetrics, gynecology, and outpatient clinic. During the two weeks on obstetrics the student lives in the hospital. The student also attends all ward rounds and

patient conferences of the department during his clerkship, unless actually engaged with a delivery or an operation. Otherwise he serves as a junior house officer or clinical clerk and is responsible for histories, physical examinations under supervision, and the delivery of such normal patients as may be assigned to him. Each student should expect to deliver about ten women. During service on gynecology he accompanies his patient to the operating room. Emphasis during the senior clerkship is placed on performance. F, W, Sp, and S. Clinical Staff.

382. Obstetric and Gynecologic Pathology. Gross and microscopic specimens are studied and correlated clinically. Two hours a week during the senior clerkship; F, W, Sp, and S. JOHNSON, HIRSCH, KAMINETZKY.

385. Presbyterian Hospital Clerkship. Six senior students are assigned for a six-week clerkship at Presbyterian Hospital. During this period they spend their entire time at Presbyterian Hospital. F, W, and Sp. ALLEN and staff.

OPHTHALMOLOGY

Professors: HUGHES (Head of Department), BEARD, DARLING (*Emeritus*), KRONFELD, MONCREIFF.

Associate Professors: T. D. ALLEN (*Emeritus*), APPLE, DONEGAN, FOWLER (*Emeritus*), SNYDACKER, THEOBALD (*Emeritus*).

Assistant Professors: CLARK, COWEN, CRANE, FOLK, FOX, HAAS, MAHER, McDONALD, MCGARRY, MUNDT, PEARLMAN, PUSHKIN, ROSENBERG, SCHEFFLER, SCHERIBEL, STILLERMAN, URIST, WILDER, ZEKMAN.

Associate: LEECH.

Instructors: R. L. ALLEN, BENFORD, FEINBERG, FITZGERALD, HALL, HERBST, E. T. JONES, JUSKA, KIRK, LASSITER, LEARSY, MATUSAK, SCHALL, SCHULTZ, SPIRO, TATAR, TRESLEY.

Assistants: BAYARD, BECK, BROWN,¹ CASSADY, CHOI, DEUTSCH, FERCHO, FERGUSON, GASKIN, HAHN, HENRY, HOGAN, S. T. JONES, KELLY, KNOWLES, LAMBERSON, LIGHT, MCDANIEL, OLEARI, PERRY, SCOTT, TENNENBAUM, TENNEY.

The goal of instruction in ophthalmology is to enable the student to integrate the principles of basic science into the problems of ocular disease, to learn the technics of examination of the eye, to know the ocular manifestations of systemic disease, and to recognize the common ocular diseases likely to be encountered in general practice. Ophthalmology as a specialty is taught in post-graduate courses and during residency training.

During the third year, a series of lectures is presented and multigraphed

¹ On leave of absence for military service.

notes are distributed to emphasize the important aspects of ophthalmology. During the fourth year, patients in the outpatient departments of ophthalmology at the Research and Educational Hospitals, Illinois Eye and Ear Infirmary, Presbyterian Hospital, and St. Luke's Hospital are worked up by the students and discussed with an instructor.

Required Courses — First Year

301. **Gross Human Anatomy.** (Department of Anatomy.) Dissection of the orbit. Four hours; Sp. MUNDT, PEARLMAN, and staff.

Required Courses — Second Year

352. **Bacteriology.** (Department of Bacteriology.) Technic of taking eye cultures. One hour; W. PEARLMAN.

Required Courses — Third Year

350. **Didactic Instruction.** (Department of Ophthalmology.) Illustrated lectures and multigraphed notes covering diseases of the eye related to general systemic disease and ocular conditions commonly encountered in the general practice of medicine. One hour each week; Sp. HAAS, HUGHES, KRONFELD, WILDER.

Required Courses — Fourth Year

351. **Clinical Instruction.** (Department of Ophthalmology.) Examination of dispensary patients, including visual acuity, external and slit lamp examinations, tonometry, ophthalmoscopy, and visual fields. Demonstrations of important ocular diseases. Two hours a day, four days a week, for two weeks; F, W, Sp, and S. BEARD, CLARK, CRANE, DONEGAN, FEINBERG, FITZGERALD, FOLK, FOX, HERBST, LASSITER, MAHER, McDONALD, PEARLMAN, SCHERIBEL, SNYDACKER, SPIRO, STILLERMAN, TRESLEY, WILDER, ZEKMAN.
356. **Surgery Dispensary.** (Department of Surgery.) Clinical demonstrations and movies of surgical and traumatic eye conditions. One hour a week for six weeks; F, W, Sp, and S. DONEGAN, McDONALD, PEARLMAN, SCHERIBEL, SPIRO.

ORTHOPAEDIC SURGERY

Professors: RAY (Head of Department), THOMAS (*Emeritus*).

Associate Professors: LAMBERT, BERKHEISER (*Emeritus*), HARK, MURPHY.

Assistant Professors: EICHELBAUM, FARRINGTON, FOX, HECK, MARSHALL, MILLER, SHAPIRO, TURNER.

Associate: GRIMMER.

Instructors: APFELBACH, BOWNESS, CRONIN,¹ JOFFE, KOSICKI, LIDGE, MEANY, NOVOTNY, RICH, VARZINO.

Assistants: ANDREWS, NEWMAN, ROBINSON.

Orthopaedic surgery is that branch of surgery especially concerned with the preservation and restoration of the functions of the skeletal system, its articulations, and associated structures. This definition may seem to be all-inclusive, but it has a distinctive application to all the cases seen in this department. The wide variety of orthopaedic conditions manifest at all ages makes it essential that the subject be studied as a whole and not divided by age limits. Cases from all areas throughout Illinois are observed in the outpatient department and hospitalized for study and appropriate therapy. This provides a rare opportunity for the observation of many unusual pathological entities. Return visits provide the opportunity of observing the course of the disease over many years.

The teaching program for the undergraduate students is arranged so as to emphasize clinical aspects, and an opportunity is given to see firsthand many of the more unusual cases.

The relationship of orthopaedic conditions to general medicine, surgery, and other fields of medicine is constantly emphasized. Close cooperation of other departments is attained. Great emphasis is placed on the development of the powers of observation inasmuch as many orthopaedic problems are quite evident on inspection. Advanced work in the department is done chiefly through the long period of residencies which qualify men as specialists in the field of orthopaedic surgery.

Required Courses — Third Year

350. Clinical Orthopaedic Surgery with Demonstrations. Consideration of orthopaedic problems, including diagnosis and operative treatment of fractures and bone tumors. One hour each week; F, W, and Sp. LAMBERT and staff.

Required Courses — Fourth Year

376. Clerkship. Clinical demonstrations for seniors. Observation and study of clinical cases. Practical demonstrations of orthopaedic conditions — ward rounds, diagnostic problems, surgical procedures. F, W, Sp, and S. LAMBERT and staff.

¹ On leave of absence for military service.

Required Courses — Occupational Therapy Students

324. Orthopaedic Conditions. A study of injuries to bones and joints, including involvement of soft tissue, paralysis, etiology, types, symptoms, and treatment. Twelve lectures and twenty-four hours of clinic; F. Orthopaedic Staff.

OTOLARYNGOLOGY

Professors: LEDERER (Head of Department), BAKER, HAYDEN (*Emeritus*), HOLINGER, HOLLENDER (*Emeritus*), THEOBALD (*Emeritus*), VAN ALYEA.

Associate Professors: ANDREWS, FRIEDBERG, LEWIS, LIGHTFOOT, LIVINGSTON, MORWITZ (*Emeritus*), SNITMAN, WALLNER, WATKINS (*Emeritus*).

Assistant Professors: BECKER, BLUMENTHAL, BUCKINGHAM, CHAINSKI, COOMBS, CUBERT, FABRICANT, GREENE, HENNER, HORWITZ, JOHNSTON, LESHIN, LEWY, POLLOCK, SATZ, SAVITT, SCHOOLMAN, SKOLNIK, SOBOROFF, WOJNIAK.

Associates: BLUMKLOTZ, SINGH.

Instructors: BARTLETT, DALE, ELLIOTT, FRASIER, FRIEDMAN, HOELTGEN, KURTH, LOEWY, MANSUETO, McCAULEY, ORRICO, RATKO, ROSENBERG, SMILEY, SPRINGER, TOROK, WEIDEMANN, YAST.

Assistants: FORNATTO, GLADNEY, GUEMMER, GYORKEY, KINKELLA, MARTIN, NEUENDORF, O'NEIL, PANAGOPOULOS, PERRELLI, PLEVA, RAZIM,¹ SMITH, TAIARA.

Otolaryngology concerns itself with the study of the normal and abnormal functions of the upper respiratory system, the upper digestive tract, and the special senses of speech, hearing, and olfaction. As such, it is constantly concerned with the social, physiological, and physical aberrations present when malfunction takes place in any of these systems. The wide diversity of systems and regions studied lends itself to special emphasis placed upon divisions of the specialty, such as otology, bronchoesophagology, maxillofacial surgery, and audiology.

Otology, the study of the functions of the ear, not only has for its primary aim the diagnosis and treatment of diseases of the ear, but the equally important facet of the social rehabilitation of the deaf and hard of hearing. So great are the social implications of disturbed speech and hearing that audiology, which is a field developed to encompass hearing rehabilitation, forms an important division of otolaryngology. Endoscopy concerns itself with direct visualization, diagnosis, and therapy of the pharynx, esophagus, larynx, and tracheobronchial tree.

The primary aim of the department is to teach the undergraduate to recognize disease or malfunction in these systems and to evaluate the method of arriving at a correct diagnosis so that therapy may be intelligently applied.

¹ On leave of absence for military service.

For the practicing otolaryngologist, courses are offered in bronchoesophagology and in current trends in otolaryngology so that he may avail himself of the facilities in the department. Persons wishing to specialize in otolaryngology may enroll in the one-year basic course given to teach them the principles and methods of the specialty. A sufficient number of residencies are available under departmental supervision to permit a three- to five-year training period.

The department is divided into the following divisions: (1) otolaryngology, (2) bronchoesophagology, (3) speech and hearing rehabilitation, and (4) maxillo-facial surgery, including neoplasms of the head and neck. The required courses in these divisions are so arranged that didactic instruction precedes practical application of the specialty, emphasizing its relation to general medicine. During the fourth year, the student is given instruction in the basic principles of the specialty by means of formal lectures, augmented by informal conferences in small groups, and through opportunities to apply the principles of diagnosis and treatment. This is carried on in the outpatient department by means of clinics designed to present the more common otolaryngologic affections, and in a dispensary service where the student is taught individually and directly by contact with patients.

Required Courses — Fourth Year

350. **The Ear.** Surgical anatomy, physiology, applied pathology, and treatment. One hour each week; F. LEDERER and staff.
351. **The Nose and Paranasal Sinuses.** Surgical anatomy, physiology, pathology, and treatment. One hour each week; W. LEDERER and staff.
352. **The Pharynx and Larynx.** Surgical anatomy, physiology, applied pathology, and treatment. One hour each week; Sp. LEDERER and staff.
353. **Dispensary.** Research and Educational Hospitals. Six two-hour periods during two weeks; F, W, and Sp. LEDERER and staff.

PATHOLOGY

Professors: KRAKOWER (Head of Department), BENNETT, HASS, LEVINSON, PIRANI, SAPHIR, WEINMANN.

Professorial Lecturer: CAHN-BRONNER.

Associate Professors: CATCHPOLE, FULLER, GRIMM, KEARNS, KING, LEARNER, MASON, MCGREW, MILLES, NEDZEL, TAYLOR.

Assistant Professors: COSTICH, FLOBERG (Lecturer), HIRSCH (Lecturer), JOHNSON, MARKOWITZ, RAGINS, RUSS, SCHWEITZER, THOMPSON,¹ VAN PERNIS.

Research Associate: GREENSPON.

¹ On leave of absence for military service.

Instructors: AMROMIN, BROWN, HABEGGER, HOFFMAN, MALONEY, RYWLIN, SADJADI, SCHNEIDER, SEITZINGER, SLOMINSKI, TRUEHEART, TSENG, VAWTER,¹ ZIENTEK.

Assistants: ALCANTARA, CADSAWAN, CLASEN, JESSEN.

Pathology is that branch of natural science which is concerned with disease, its essential nature, its causes and development, and the structural and functional changes occurring in the living bodies in which it occurs.

Thus, following courses in anatomy and biochemistry in the first year, together with introductory work in physiology, the student is prepared to begin the study of pathology. General pathology is given during the first quarter of the second year. Special pathology and clinical pathology are presented in a single integrated program during the second and third quarters. Courses in surgical and gynecological and obstetrical pathology in the fourth year conclude the formal instruction conducted by this department. The latter courses are given in collaboration with the Departments of Surgery and Obstetrics and Gynecology.

Required Courses — Second Year

325. General and Clinical Pathology. The basic principles of pathological processes, including tissue injury and repair, inflammation, circulatory disturbances, retrograde processes, and tissue responses to specific infectious agents and neoplasms, are considered in the first part of the course. In the latter part, the disease processes affecting each organ and anatomic system are considered in greater detail. The pathologic physiology and biochemistry of disease are closely integrated with the morphologic changes. Essential diagnostic laboratory procedures are discussed as to their purpose and the manner of evaluating the results. The laboratory exercises are designed to correlate and interpret the gross and microscopic changes occurring in diseased tissues. Essential diagnostic laboratory tests are performed in relation to the diseased organ or system under study. Twelve hours each week, F and W; thirteen hours each week, Sp. FULLER, GRIMM, KRAKOWER, LEARNER, MASON, PIRANI, RUSS, and others.

Required Courses — Third Year

351. Surgical Pathology. Lectures and demonstrations covering the pathology of tumors frequently encountered in the practice of surgery and the pathologic physiology of diseases of a surgical nature. This course provides preparation for the fourth-year course in surgical pathology (Pathology 375). One one-hour period each week; W. SLAUGHTER and others.

Required Courses — Fourth Year

375. Surgical Pathology. In conjunction with their clinical work the surgical clerks study systematically gross and microscopic specimens illustrating

¹ On leave of absence for military service.

the common lesions removed by surgical procedures. One two-hour period each week for twelve weeks in addition to the regularly scheduled surgical-pathologic conferences; F, W, and Sp. JOHNSON and others.

376. Legal Medicine. Same as Dentistry 376. Principles of law governing individual and professional rights and obligations; rights and obligations arising from the relationship of doctor (dentist) and patient and their enforcement in court; expert testimony; state medical and dental statutes and general law. One hour each week; Sp. FLOBERG.

382. Gynecological and Obstetrical Pathology. Same as Obstetrics and Gynecology 382. This course is taught in cooperation with the Department of Obstetrics and Gynecology. Gross and microscopic material representing the lesions of the female genital organs are presented in a systematic fashion and clinical pathological correlations stressed. One two-hour period each week for six weeks; F, W, and Sp. HIRSCH, JOHNSON, and others.

Required Courses — Occupational Therapy Students

324. Introduction in Pathology for Students in Occupational Therapy. Reactions of tissues to injury, healing of wounds, certain aspects of neoplasia, and the more important diseases of the locomotor system. Twelve hours of lecture and demonstration; F. MCGREW, SLOMINSKI, ZIENTEK.

PEDIATRICS

Professors: SANFORD (Head of Department), BRONSTEIN, BUTLER, GASUL, GRULEE (*Emeritus*), HOYNE (*Emeritus*), MCCULLOCH (Lecturer).

Associate Professors: HARRISON, HOFFMAN, KOBES, LIS, MARIENFELD, ROSENTHAL, SPAETH, STULIK.

Assistant Professors: BARRON, BOHNING, BOWER, BRESLOW, CHRISTOPHERSON, CLINE, CRAWFORD, DAMMERS, DESSERT, GROSSMAN, HALL, HALPERN, HYDE, LEICHENGER, LEWISON, PACHMAN, PARKER, RICHTER, SALTIEL, SHAW, SHMIGELSKY, TOMLINSON, WELKER, WOLF.

Instructors: GARDNER, HALPIN, JACKSON, KRAVITZ, KRUGLY, KRUZE, LANDER, LASSERS, LIMOSANI, MARINO, NAGEL, NOLAN, SCHUCKMELL, SINGH, WELFORD.

Assistants: AHERN, CHAI, CHAN, DARROW, HARDY, LERNER, LYON, MABILANGAN, POLNIASZEK, TREVINO, WIRTSHAFTER.

Research Assistant: ASROW.

Instruction in the Department of Pediatrics is intended to provide the student with adequate information and practical experience in infant and child care for the practice of general medicine. An attempt is made to present the concept of total care of the infant, child, and adolescent by emphasizing the

physician's role in enhancing optimal physical, mental, and emotional growth as well as management of the variations therefrom. The student is also provided with an opportunity to observe the application of this information to community planning for child care. Clinical instruction is offered in the inpatient and outpatient services at the Research and Educational Hospitals, Cook County Hospital, Presbyterian Hospital, Grant Hospital, the contagious disease division of the Cook County Hospital, and the Municipal Contagious Disease Hospital. Visits to infant welfare clinics and a nursery school are also included.

During the third year a systematic course in clinical pediatrics is presented to the entire class. In place of the conventional study of diseases in infancy and childhood, the most common symptoms during this age period are considered from the standpoint of their basic physiology, pathology, and age incidence. Supplementing the didactic teaching is a six-week clerkship on the pediatrics wards of the Research and Educational and Cook County Hospitals. Assessment of the normal and sick child, infant feeding, and evaluation of nutritional status are studied in small groups. Patients serve to illustrate the problems encountered in medical practice. Demonstrations in preparation of diets and occupational therapy in pediatrics are also provided. Clinical and didactic instruction in applied immunology, public health, and contagious diseases are offered in both third and fourth years.

Instruction in the senior year consists of a six-week clerkship at the Municipal Contagious Disease Hospital, LaRabida Sanitarium, pediatric outpatient departments of the Research and Educational, Grant, Presbyterian, and Cook County Hospitals, and the infant welfare units of the Cook County Health Unit. The program of study is sufficiently flexible so that the instructional staff can arrange opportunities for more intensive study of growth and development, hematology, nutrition, pediatric allergy, metabolic diseases, and endocrinology for students with special interests in any of these fields.

Required Courses — Third Year

350. Symptom Diagnosis in Infancy and Childhood. Systematic group lectures on the basic mechanisms and age incidence of thirty of the most common symptoms of infants and children. One hour each week; F, W, and Sp. BRONSTEIN, ROSENTHAL, SANFORD.

351-352. Clerkship. Introduction to the clinical study of the infant, child, and adolescent. History taking, physical examination, and laboratory study of the pediatric patient is taught by demonstration and intensive individual case study. The physical, intellectual, and emotional growth of the patient is studied concomitantly with the medical problems presented. The application of the principles of nutrition is considered in relation to breast feeding, artificial feeding, and dietary supervision of the normal and the sick child. Six hours a day for six weeks; F, W, and Sp. BOHNING, HALPIN, HYDE, KRUIZE, LASSERS, LIMOSANI, LIS, SANFORD, SINGH.

Required Courses — Fourth Year

375. **Clerkship.** The clerkship is of six weeks duration. It is divided into two small groups which are assigned to the pediatric departments of the Research and Educational Hospitals and the Presbyterian Hospital for the study of patients on the wards and in the outpatient departments. One morning each week is devoted to the study of contagious diseases at the Municipal and County Contagious Disease Hospitals. At this time the theory and practice of immunizations in pediatrics are considered. One morning each week is spent at the LaRabida Sanitarium where small groups receive systematic instruction on the diagnosis and management of rheumatic fever. Students are provided an opportunity to visit nursery schools, infant welfare clinics, and school health programs, and to serve as advisory members of the medical staff. The clerkship thus affords a broad orientation in the fields of infant and child welfare, public health, and pediatric practice in the office and in the hospital wards. F, W, and Sp. BRESLOW, DAMMERS, DESSENT, FINER, HALPERN, HYDE, JACKSON, KRUGLY, LASSERS, LIS, NOLAN, PACHMAN, POLNIASZEK, RICHTER, ROSENTHAL, SALTIEL, SANFORD, SINGH, TOMLINSON, WELKER, WIRTSHAFTER, WOLF.
376. **Pediatric Seminars.** Pediatric symptom diagnosis, pediatric therapeutics, endocrinology, and current pediatric journal reviews are presented in seminar session. Four one-hour periods each week during the pediatric clerkship; F, W, and Sp. BARRON, BOHNING, BRONSTEIN, CLINE, GASUL, GROSSMAN, LEWISON, LIS, MARIENFELD, POLNIASZEK, SCHUCKMELL, SHAW.

Required Courses — Occupational Therapy Students

324. **Pediatric Occupational Therapy.** The role of the occupational therapist in pediatrics. Twelve hours of lecture; F, W, and Sp. HALPIN, LIMOSANI, SANFORD, SCHUCKMELL.

PHARMACOLOGY

Professors: UNNA (Head of Department), CAMP, DRILL (Lecturer), MCGUIGAN (Emeritus).

Associate Professors: BUSCH, SHERROD.

Assistant Professors: DEMAAR (Lecturer), FUNDERBURK (Lecturer), MARTIN, SMITH.

Instructors: BLANKE, MORRIS.

Research Assistant: KERANEN.

Pharmacology is the science which deals with the qualitative and quantitative aspects of the action of drugs and other chemical substances upon the living

organism. A drug is a chemical compound which has therapeutic usefulness. Pharmacology has the following general subdivisions: pharmacodynamics, chemotherapy, toxicology, and therapeutics. Pharmacodynamics is the study of physiological and biochemical events resulting from the action of drugs for microorganisms, parasites, and neoplastic diseases. Chemotherapy is the study of the selective toxicity of drugs for microorganisms, parasites, and neoplastic diseases. Toxicology is the study of the noxious actions of chemical compounds. Therapeutics is the study of the effects of drugs in combating disease.

Pharmacology is intimately interwoven with other medical sciences. A clear understanding of biochemistry and physiology is necessary for the interpretation of drug action. Rational therapeutics depends upon knowledge of pathogenesis and pathology. There is similarly a close connection between pharmacology and bacteriology, biophysics, anatomy, and other fundamental medical disciplines.

The purpose of the courses in pharmacology is primarily to provide the student with sufficient knowledge of drugs and modes of drug action so that the patient can be intelligently and adequately treated.

Required Courses — Second Year

325-326. Pharmacology, Toxicology, and Chemotherapy. Lectures and discussion periods, W and Sp; three-hour weekly laboratory, W; two-hour weekly demonstration, Sp. Prerequisite: Acceptable courses in biochemistry and physiology. UNNA and staff.

PHYSICAL EDUCATION

Instructor: BROWN.

Although physical education is not required, the University recognizes the values imparted to the medical student through such activity by providing facilities and supervision.

The program of the College of Medicine is complex and arduous and presents definite hazards to physical health as well as causing emotional tension and strain. Physical activity is recognized by many as a good means of gaining relaxation and releasing tension. Students participating in the recreational program may gain health benefits, study more effectively, be more alert in class, and maintain a more reasonable degree of fitness.

The program consists of two parts: (1) intramural, which is competitive, and consists of team and individual activities; (2) recreational, which consists of non-competitive sports, plus all the intramural sports, in which the individual participates in activities of his own choice for pleasure and relaxation.

It is the expressed desire of the college authorities and the department that the student make full use of the facilities to help maintain the balance needed in the most arduous of all branches of education.

Elective Course

Physical Education Practice. The measurement, development, and maintenance of physical fitness as a firsthand experience in accordance with each student's needs and abilities. Two hours each week. BROWN.

In addition to the work offered in physical education, an extensive intramural athletic program for men is in operation. Intercollegiate athletics are limited to basketball, golf, and tennis. Students who do not have a college degree and three years of varsity competition may compete with varsity teams from the Urbana-Champaign departments. A small gymnasium, an athletic field, and tennis courts are open daily. Recreational swimming and handball are offered free to male students at the Duncan Y.M.C.A. Women students are offered use of the West Side Y.W.C.A., the archery and table tennis equipment at the Illini Union Building, and the tennis courts.

PHYSICAL MEDICINE AND REHABILITATION

Professors: ABRAMSON (Head of Department), KENDELL.

Assistant Professor: FLANK.

Instructors: STYCHE, ZEHMER.

Physical medicine and rehabilitation is concerned with the application of physical agents for diagnostic and therapeutic purposes. The physical and other properties of heat, light, electricity, water, massage, and exercise are employed for the prevention of deconditioning, mobilization of joints, increase in strength, power, and endurance, for muscle re-education, or improvement in general health and physical fitness. The techniques and procedures of physiatrics assist in the maximal utilization of residual abilities for total rehabilitation purposes. They include training in the physical skills required for independent living. Among the special services offered by the department are electrodiagnosis, electromyography, and the design and construction of assistive devices.

Required Courses — Occupational Therapy Students

324. Physical Medicine and Rehabilitation for Occupational Therapy Students.

An introduction to the use of physical medicine in the rehabilitation of the physically handicapped. Lectures and demonstrations covering the physiologic basis of therapeutic exercise, utilization of physical modalities, methods of disability evaluation, principles of physical restoration and body mechanics, the use of assistive devices, and an analysis of disorders commonly referred to physical medicine with a discussion of therapeutic measures employed. Twenty-four hours of lectures; W.

PHYSIOLOGY

Professors: WAKERLIN (Head of Department), BACHEM (*Emeritus*), CRANDALL (Lecturer), GUILLEMIN, HIMWICH (Lecturer), MARBARGER, REED, WHITEHORN.

Associate Professors: DARROW, INGRAHAM.

Assistant Professors: ALPERT, GREENBERG, SCHWARTZ, SOUTH.

Instructor: HENRY.

Physiology is the study of function of normal living organisms. It seeks to understand the ways in which various parts of the body work to adapt the organism to its internal and external environments. Physiology utilizes knowledge supplied by such physical sciences as chemistry and physics on the one hand, and knowledge derived from the study of disease (which is fundamentally abnormal or pathological physiology) on the other.

The teaching program for undergraduate students of the College of Medicine emphasizes mammalian and human physiology. The three required courses for medical students cover all fields of human physiology in sufficient detail to serve as a sound basis for the remainder of the curriculum and subsequent medical practice. The facts and principles of physiology are integrated with those of the other medical sciences, particularly anatomy and biochemistry. Its relationships to disease are emphasized and demonstrated not only by suitable laboratory experiments, but also by illustrative patients and hospital and clinic records. The primary aim of the teaching program of the department is to assist the medical student in acquiring an organized knowledge of biology and medicine which will enable him to avoid empiricism and to practice his profession intelligently.

The elective advanced courses listed below are for those medical students who wish more specific knowledge of certain fields of physiology and its clinical applications or who wish to obtain experience in research. Such students are encouraged to consult the department about these courses and opportunities in the Graduate College program of the department, which may be pursued with a full medical curriculum.

Required Courses — First Year

- 324. Human Physiology.** Physiology of muscle and nerve, blood, circulation, and respiration. Lectures, conferences, correlation exercises, demonstrations, and laboratory. Nine and one-half hours each week; F. ALPERT, GREENBERG, HENRY, INGRAHAM, MARBARGER, REED, SCHWARTZ, SOUTH, WAKERLIN, WHITEHORN, and others.
- 325. Human Physiology.** Continuation of Physiology 324. Physiology of digestion, excretion, endocrines, nutrition, metabolism, and heat regulation. Lectures, conferences, correlation exercises, demonstrations, and laboratory.

Nine and one-half hours each week; W. ALPERT, GREENBERG, HENRY, INGRAHAM, MARBARGER, REED, SCHWARTZ, SOUTH, WAKERLIN, WHITEHORN, and others.

326. **Human Physiology.** Continuation of Physiology 325. Physiology of the central nervous system and senses. Lectures, conferences, demonstrations, correlation exercises, and laboratory. Nine and one-half hours each week; Sp. ALPERT, GREENBERG, HENRY, INGRAHAM, MARBARGER, REED, SCHWARTZ, SOUTH, WAKERLIN, WHITEHORN, and others.

Elective Courses

(Open only to qualified students. Time to be arranged.)

301. **Biophysics.** This course presents physical principles, techniques, and instrumentation applicable to biological and medical research, clinical diagnosis, and therapy. Topics are selected from the following branches of physics: mechanics, sound, heat and thermodynamics, electricity, and electronics. Lectures, conferences, and demonstrations. Three hours each week; W. GUILLEMIN.
302. **Biophysics.** Continuation of Physiology 301. Topics are selected from the following branches of physics: light, X-rays and other radiations, atomic and nuclear physics. Lectures, conferences, and demonstrations. Three hours each week; Sp. GUILLEMIN.
351. **Advanced Physiology.** This course is designed to meet the needs of students desiring advanced detailed knowledge of a limited field. Different fields are selected and announced in advance. Subjects covered are blood, circulation, muscle, gastrointestinal tract, kidney, endocrines, metabolism and nutrition, growth, and neurophysiology. One two-hour period each week; F, W, and Sp. ALPERT, GREENBERG, GUILLEMIN, HENRY, INGRAHAM, MARBARGER, REED, SCHWARTZ, SOUTH, WAKERLIN, WHITEHORN, and others.
352. **Problems in Physiology.** Research in physiology for third-year and fourth-year medical and dental students who do not have the baccalaureate degree. F, W, and Sp. ALPERT, GREENBERG, HENRY, INGRAHAM, MARBARGER, REED, SCHWARTZ, SOUTH, WAKERLIN, WHITEHORN, and others.

PREVENTIVE MEDICINE

Professor: LEPPER (Head of Department).

Associate Professors: HULL (Lecturer), ROSENTHAL, SAXTON.

Instructor: SCHOOLMAN.

Assistant: JARACZ.

Research Assistant: RUBENIS.

The objectives of the Department of Preventive Medicine are to make the student aware of the importance of the hereditary and environmental factors in health and disease with special reference to the social and economic factors; to relate these factors to the problems of patients; to familiarize the student with the various community agencies which are helpful in the conservation of health and in the prevention and treatment of illnesses; and to coordinate the student's knowledge of the techniques which are now available for the physician's use in the prevention of disease.

The basic information in this field is covered in lectures and demonstrations in the second year, and this is extended by lectures in the third year. Also in the third year, seminars are given with the cooperation of other preclinical and clinical departments in order to integrate the student's thinking about diseases and groups of diseases and to relate the knowledge and attitudes of the medical profession to the attitudes of people outside the field of medicine. In the senior year, by studying patients in the outpatient department and in their homes, students are given an opportunity to relate the social and environmental factors in health and disease to the problems of patients.

Required Courses — Second Year

330. Preventive Medicine and Public Health. Given in conjunction with the Department of Public Health. Same as Public Health 330. Lectures and demonstrations covering the principles of the prevention of disease and the relation of the practicing physician to public health agencies. Two hours each week; Sp.

Required Courses — Third Year

350. Preventive Medicine. Lectures and demonstrations on various aspects of the conservation of health and the prevention of disease. One hour each week; Sp.

Required Courses — Fourth Year

375. Social Environment in Relation to Illness. An outpatient clerkship at the Research and Educational Hospitals for one-third of the class. Patients are studied in the clinic and in their homes, following which conferences are held which are attended by members of the Departments of Psychiatry and Medical Social Work. Three hours a week for six weeks; F, W, and Sp.

PSYCHIATRY

Professors: GERTY (Head of Department), ALEXANDER, BAILEY, CARMICHAEL, GRINKER, HAMILL (*Emeritus*), MEDUNA, MOHR, SHAKOW (Lecturer).

Associate Professors: ABOOD, BOSSELMAN, BRAUDE (*Emeritus*), GYARFAS, HOFFMAN (*Emeritus*), HOLLENDER, MORRISON, NIELSON, OLKON (*Emeritus*), POLLOCK, ROSENWALD, SIHERMAN (*Emerita*), SOLOMON, TOWER (*Lecturer*), WEATHERLY, WEINBERG.

Assistant Professors: ALTSCHUL, BEISER, BENJAMIN, H. E. BERNSTEIN, L. BERNSTEIN, BLOCK, BONNELL, BROLLEY, BUETTNER, CHAPLIK, FLARSHHEIM, GIOVACCHINI, GREEN, GREENBERG, HALPERIN, HAMBURG, HAMMOND, HANDLER, HANNI, HARMAN, HARRIS, HILKEVITCH, ISRAEL, JENSEN, KOFF, R. S. LEVINE, LIEBMAN, LING, LONGINI, McMILLAN, MEEHAN, MILLER, MURRAY, NEMEGEK, NOVICK, NUDELMAN, PASKIND, ROBERTSON, ROSENTHAL, ROWE, RUDY, RUEHR, SEGENREICH, SIMMEL, SKLANSKY, SPURLOCK, STEED, STEWART, TALBOTT, TARLOW, TOURLENTES, VICTOR, WEISDORF, WESTFALL, WIEMAN, WRIGHT, ZIELINSKI.

Research Associates: BOSZORMENYI-NAGY, COUNTS, GARNER, GEIGER, KOKETSU, R. B. LEVINE, RETZLAFF, STERNBERG, TAKAGI, THOMAS, WENAR, YAMASAKI.

Instructors: CHEIFETZ, DIAMOND, EVANS, FEINSTEIN, GEDO, GOODMAN, GRAY, KITT, LAGE, LEE, MCPHERSON, MEDEROS, PERCE, SEGLIN, SEIDENBERG, SIEGEL, TOLPIN, VISOTSKY, WEINER, WEINFELD.

Assistants: BOLIN, CASTILLO, CHESSICK, FLAGG, GINSBERG, KOENIG, LAKIN.

Research Assistants: CHAPMAN, OTIS.

Required Courses — First Year

310. Growth, Development, and Deviations of the Personality, I, II, and III.

An orientation course presenting the correlation between psychologic, physiologic, sociologic, and psychiatric forces on the individual and his social environment. The first two quarters cover the dynamic aspects of the personality from birth through adolescence. Throughout, the emphasis is not only on the immediate period studied but on its relationship to subsequent developments. Formal lectures, informal discussions, and case demonstrations are used. Direct experience in observation is provided through individual case contacts on the Pediatric Service. The third quarter covers the period of young adulthood, middle age, senescence, and death. Reference to material studied previously is constantly made. Collaboration with the Department of Preventive Medicine is utilized. Fundamentals of psychiatric interviewing and history taking are presented in orientation to the psychosomatic approach. Formal lectures, informal discussions, and case demonstrations are used. One hour each week; F, W, and Sp. GROSSMAN, LEPPER, POLLOCK.

Required Courses — Second Year

325. Introduction to Clinical Psychiatry: Psychopathologic and Therapeutic Approach. The sophomore course in psychiatry is designed to present

principles of psychopathology and therapeutic approaches utilized in psychiatry. It is hoped that this correlates more specifically with the other courses given in the sophomore medical curriculum. Wherever possible, clinical material is used to illustrate the above. The first quarter is devoted to a study of the neuroses and allied conditions. The second quarter is concerned primarily with the psychotic disturbances. The last quarter, given in cooperation with a member of the Department of Neurology and Neurological Surgery, is devoted to a discussion of the psychologic aspects of diseases of the central nervous system. One hour each week; F, W, and Sp. BOSSELMAN, GARVIN, NIELSON, POLLOCK.

Required Courses — Third Year

350. **Clinical Descriptive Psychiatry.** The clinical course for juniors deals with the integration of general psychiatry and psychopathology to medical practice. Presentation is oriented to a somatopsychic approach with emphasis on patient-doctor relationships. Selected systemic diseases are used for illustration. One hour each week; Sp. BERNSTEIN, NIELSON, WEINBERG.
351. **Clinical Clerkship.** The chief instruction in the first clinical year is given in this course. Students are assigned patients on the wards of the Neuropsychiatric Institute for individual study and also have the opportunity to study cases at the Cook County Psychopathic Hospital under supervision. The students attend clinical demonstrations at Cook County Psychopathic Hospital and the Neuropsychiatric Institute. Under the supervision of attending hospital staff, the students in small groups consider the various factors operative in mental illness. Under supervision of the Medical Social Work Department, students interview patients' families and investigate the effect on the family of a patient's illness and genetic factors in the illness. Twice a month a film on a psychiatric subject is shown and discussed. Emphasis is on the interpersonal relationships between the doctor and the patient. For one day each week the student spends his time on the medical wards where a psychiatric consultant is assigned to attend the clinical conferences and is available on the wards to discuss the psychiatric aspects of disease. Three hours each day for four weeks; F, W, and Sp. ALTSCHUL, L. BERNSTEIN, BONNELL, BOSSELMAN, GERTY, GRAY, HOLLENDER, LARGE, McMILLAN, NEMECEK, NIELSON, TARLOW, VICTOR, WEINBERG, WENAR.

Required Courses — Fourth Year

375. **Clerkship.** Supervised experience in interviewing patients in the psychiatric outpatient department, with discussion of the doctor-patient relationship, the specific problems revealed by the patient, and the means of treatment. Supplementary discussion groups are held to consider psychiatric principles which are of value in the evaluation and treatment of all

patients, using illustrative materials representing common problems seen in all branches of medical practice. In addition, during that part of the medical clerkship which the student spends on the general medical wards, psychological problems of the patient are considered as they relate to the total understanding and treatment of the patient. This is accomplished through integrated teaching on the medical wards where a psychiatrist is present as a member of the clinical team. Psychiatric outpatient work is at either the Neuropsychiatric Institute half days for six weeks or at the Presbyterian Hospital two half days for six weeks. Inpatient work on general medical wards is in coordination with the Department of Medicine either at the Research and Educational Hospitals or at Presbyterian Hospital throughout the medical clerkship. F, W, and Sp. BUETTNER, CHAPLIK, CHEIFETZ, FLARSHEIM, GEDO, GIOVACCHINI, HAMMOND, HANNI, ISRAEL, LIEBMAN, MCPHERSON, MEEHAN, MORRISON, NIELSON, NOVICK, NUDELMAN, ROWE, SEGLIN, SEIDENBERG, SIEGEL, SPURLOCK, STEED, TALBOTT, WEATHERLY, WEISDORF, WRIGHT, ZIELINSKI.

Elective Courses

377. Seminar in Psychosomatic Problems. Discussion of principles and demonstration of cases. One and one-half hours each week; F, W, and Sp. Open to physicians, residents, interns, and to senior medical students with consent of instructor. ALEXANDER, POLLOCK, TOWER.

Required Courses — Occupational Therapy Students

324. Psychiatry for Occupational Therapy Students. A brief description of the major neuroses and psychoses is presented. The emphasis is made upon understanding the development of the personality, the factors which contributed toward the development of the illness, and the methods to be employed in the handling of specific problems presented by the patient in occupational therapy. Twenty-four hours of lectures; F.

PUBLIC HEALTH

Professors: SHAUGHNESSY (Head of Department), BATSON.

Associate Professor: PISZCZEK.

Assistant Professors: ABRAMS, KLASSEN, McDANIELS, MORSE (Lecturer).

Research Associate: DOVE.

Public health has been defined as "the science and the art of preventing disease, prolonging life, and promoting physical and mental health and efficiency through organized community efforts for the sanitation of the environment, the control of community infections, the education of the individual in principles

of personal hygiene, the organization of medical and nursing service for the early diagnosis and preventive treatment of disease, and the development of social machinery which will ensure to every individual in the community a standard of living adequate for the maintenance of health."

The objectives of the Department of Public Health are to provide the student with information about the agencies through which community action for the prevention of disease and conservation of health are fostered; to show the ways in which these are related to the physician and how they may aid him in his practice; to point out the responsibilities of the physician to official public agencies; and to provide the student with the basic information which will permit him to assume his place in the community health program.

The student receives an introduction to public health in the basic courses given during the second year. He is given further opportunities to learn about community health in the third and fourth years through a teaching program which is integrated with those of some of the clinical departments.

Required Courses — Second Year

- 301. Introductory Statistics.** An introduction to statistical terminology and concepts designed to aid medical students in understanding medical literature and in evaluating data. Twelve one-hour lectures; F. BATSON and staff.
- 330. Preventive Medicine and Public Health.** Given in conjunction with the Department of Medicine. Same as Preventive Medicine 330. Lectures and demonstrations covering the principles of the prevention of disease and the relation of the practicing physician to public health agencies. Two hours each week; Sp. SHAUGHNESSY and staff.

Elective Courses

- 376. Industrial Hygiene.** A discussion of the relation of the industrial environment to diseases of occupational and non-occupational origin. Elective for senior students. One hour each week; W. ABRAMS and others.

RADIOLOGY

Professors: HARVEY (Head of Department), SQUIRE, WACHOWSKI.

Associate Professors: BEILIN, HAAS, MOOS, PETERSEN, SLAUGHTER.

Assistant Professors: BRAUN, BUENGER, CLARK, GROSSMAN, LEADER, MELAMED, PANTONE, SLOBODIN, STARKMAN, TIMPTON, WHITNEY, WILSON.

Instructors: BAKER, BRADLEY, HENDERSON, IRISH, LIEBNER, LINK, TODD.

Assistants: FRITZ, JONES, LEWIS, MELCHOR, SANDBERG, SAVORY, STEINBERG, ZANNIS.

The aim of the teaching program is to familiarize the student with the

scope of radiology, the indications for and limitations of diagnostic and therapeutic radiology, the hazards of this specialty, and the physical principles underlying this specialty and atomic medicine.

The teaching of radiology occurs throughout the four-year medical curriculum. The first-year students are given fluoroscopic and film demonstrations in small groups to correlate motion, function, and relationships with dissection material. Second-year students are given informal demonstrations of X-ray films in relation to autopsy material. During the clinical years the students see a continual correlation of X-ray with the various branches of medicine through case study, cooperative departmental conferences, and formal rounds.

Required Courses — Second Year

350. Radiology. This course surveys the field of diagnostic and therapeutic radiology. The diagnostic portion is approached through discussions of underlying physical and mechanical principles and an explanation of the purposes of different types of equipment. Emphasis is placed upon the different types of examinations, normal and abnormal roentgen findings, and indications and contraindications for these examinations. The therapeutic portion includes discussions of actions and uses of radium, roentgen rays, and radioactive isotopes. Biological effects of these radiations and the public health aspects of atomic medicine are stressed. Lectures and demonstrations one hour each week; Sp. HARVEY, MOOS.

Required Courses — Third Year

375. Dispensary Radiology. Logic and technic of X-ray interpretation are taught in small groups. Correlation of patients' symptoms and X-ray findings is made by clinical rounds. Detection and management of cancer is taught by demonstration and discussion in tumor clinics, wards, operating rooms, and radiation therapy section. F, W, and Sp. BAKER, BEILIN, BRADLEY, BRAUN, BUENGER, CLARK, FRITZ, GROSSMAN, HAAS, HARVEY, HENDERSON, IRISH, JONES, LEADER, LEWIS, LIEBNER, LINK, MELAMED, MELCHOR, MOOS, PANTONE, PETERSEN, SANDBERG, SAVORY, SLAUGHTER, SLOBODIN, SQUIRE, STARKMAN, STEINBERG, TIMPTON, TODD, WACHOWSKI, WHITNEY, WILSON, ZANNIS.

SURGERY

GENERAL SURGERY

Professors: COLE (Head of Department), BAKER, (*Emeritus*), BAMBERGER (*Emeritus*), DAVID (*Emeritus*), DE TAKATS, FELL, GILCHRIST, GREELEY, MCARTHUR (*Emeritus*), MILLER, NADEAU, PERCY (*Emeritus*), PHIFER (*Emeritus*), PUESTOW, STRAUS, VAN HAZEL.

Associate Professors: BEATTIE, C. B. DAVIS, DIGGS, EVERSON, GROVE, GUY, HAZLETT, JENKINS, JIRKA (*Emeritus*), JULIAN, KOUCKY, LANGSTON, LAWTON, LYON, McMILLAN, MONROE, ODEN (*Emeritus*), OLWIN, PARKER, REYNOLDS, SCHULTZ, SCUDERI, SEED, SLAUGHTER, SPIVACK, THEIS, THOREK.

Assistant Professors: ALMQUIST, ATTERBURY, BRANCH, BROWN, CROSS, CURTIN, DEPEYSTER, DIFFENBAUGH, DYE, EASTMAN, FOWLER, GARSIDE, GIBBEL, GREEN, HANSELMAN, HARDT, IRENEUS, JAVID,¹ JENSIK, KAISER, H. I. MEYER, ORNDORFF, PETERSON, REQUARTH, RIKER, ROTH, SCHNEEWIND, SHAMBAUGH, SOUTHWICK.

Research Associate: KOPPEL.

Instructors: ANTHONY, BEDERMAN, BLACK, CANHAM, CANNON, CARROLL, CORRELL, J. B. DAVIS, ECONOMOU, HAMILTON, HAMLIN, HARRIDGE, HELMEN, HESS, JAFFE, F. R. JOHNSON, KOVARIK, LINKE, LOOBY, MAJARAKIS, G. O. McDONALD, MOSSEY,¹ OLANDER, OTTEN, PRIBBLE, REISER, SHOREY, SMEJKAL, STOKES, TANNEHILL, WASICK, WERELIUS.

Assistants: ANAWIS, BARKER,¹ BRENNAN, EDWARDS, FRISCH, GALINDO, GLEASON, HENDERSON, HUNTER, F. E. JOHNSON, KNOCK, M. R. LEWIS, R. O. LEWIS, MADDEN, McANDREW, McDERMOTT, R. H. MEYER, MILROY, MOORE, MUENSTER, NASRALLA, PARROTT,¹ PASTNACK, RENDLEMAN, SANFORD, SMITH, STREHL, VERBIC, WATNE.

Research Assistant: NARAT.

The major functions in undergraduate teaching of surgery are to teach surgical diagnosis, preoperative and postoperative care, and the principles of operative technic. Several additional years of intern and residency experience are required to obtain sufficient training in operative technic and judgment to qualify as a surgeon.

In the sophomore year the student receives an introduction to surgery through a course in surgical physical diagnosis.

In the junior year the student begins clerkship work on the ward where he takes the patient's history, performs examinations, and scrubs with the surgical team in the operating room when his patients come to surgery. In the preoperative preparation of the patient and particularly in the postoperative care, the student comes in direct contact with the clinical application of physiology, biochemistry, and the other basic sciences, because in this phase of surgery the correlation with other specialties is very close. Numerous clinics are held during this clerkship period when problems in various surgical specialties as well as in general surgery are discussed.

In the senior year the student continues with a ward clerkship, but in addition is assigned work in the various surgical dispensaries. Likewise, various surgical clinics are held where the patient is used as a basis for presentation and discussion of surgical problems.

¹ On leave of absence for military service.

Required Courses — Second Year

326. **Introduction to Surgery.** Didactic seminar, including basic principles of asepsis, surgical bacteriology, infections, surgical methods, wounds, and miscellaneous surgical infections. One hour each week for twelve weeks; Sp. BROWN, CROSS, PETERSON, ROTH.

Required Courses — Third Year

350. **Surgical Clinic.** Research and Educational Hospitals. One hour each week for twelve weeks; F, W, and Sp. COLE, GREELEY, REQUARTH, REYNOLDS, SCHULTZ.
352. **Introductory Course in Fractures.** Cook County Hospitals. One hour each week for twelve weeks; W. SCUDERI.
353. **Surgical Clerkship.** Students are assigned patients and are responsible for the history and laboratory work. General (also emergency), thoracic, oral, pediatric, plastic, and vascular surgery are included. Thirty-three hours each week for twelve weeks; F, W, and Sp. Research and Educational Hospitals: COLE, DE TAKATS, GREELEY, GROVE, JULIAN, PETERSON, PUESTOW, THOREK, VAN HAZEL, and others. Presbyterian Hospital: BEATTIE, FELL, GILCHRIST, MILLER, STRAUS, and others. Cook County Hospitals: FELL, GILCHRIST, STRAUS, and others.
354. **Tumor Clinic.** One hour each week for twelve weeks; F, W, and Sp. SLAUGHTER, SOUTHWICK, and others.

Required Courses — Fourth Year

356. **Surgery Dispensary and Tumor Clinic.** History taking, diagnosis, minor surgery, and surgical dressings. Research and Educational Hospitals. Two two-hour periods each day for two weeks, assigned six evenings to Emergency Room; F, W, and Sp. COLE, DE TAKATS, FOWLER, GREELEY, GROVE, JENSIK, JULIAN, REQUARTH, SCHULTZ, SLAUGHTER, VAN HAZEL, and others.
357. **Fractures.** Two one-hour periods each week for twelve weeks; F, W, and Sp. SCUDERI, TANNEHILL.
358. **Clerkship.** St. Luke's Hospital (twelve weeks) or on orthopaedic wards of the Research and Educational Hospitals (six weeks); all day except Thursday morning (clinical anatomy) and Saturday morning. St. Luke's Hospital: McMILLAN and others. Research and Educational Hospitals: FOX, HARK, HECK, LAMBERT, and others.

Required Courses — Occupational Therapy Students

324. **Surgical Conditions.** Physical conditions which are treated through surgery including definitions, causes, symptoms, prognosis, and possible complica-

tions. Surgical treatment in relation to the value of occupational therapy in preoperative and postoperative treatment, with consideration for the patient's total rehabilitation. F and Sp.

UROLOGY

Professor: HECKEL.

Associate Professors: BUCKMAN, HERROLD, KIEFER, MERRICKS.

Assistant Professors: BAUMRUCKER, T. COTTRELL (*Emeritus*), J. H. McDONALD, MURRAY, PAPIERNIAK, RITCH, SCHACHT.

Associate: DRABANSKI.

Instructors: T. L. C. COTTRELL, JR., GAINES, HAEGER, W. C. MEYER.

Assistants: GONZALEZ, MCCLELLAN.

Required Courses — Third Year

353. **Clerkship.** Given in conjunction with Surgery 353. Students are assigned patients and are responsible for the history and laboratory work. They also attend ward rounds. F, W, and Sp. Research and Educational Hospitals: KIEFER and others. Presbyterian Hospital: HECKEL, MERRICKS.

361. **Clinical Urologic Seminar.** The more important urologic conditions are covered in detail by discussion and demonstration of patients. One hour each week for twelve weeks; F, W, and Sp. KIEFER and others.

Required Courses — Fourth Year

356. **Urology Dispensary.** History taking, examinations, and treatment. Research and Educational Hospitals. Four two-hour periods each week for two weeks; F, W, and Sp. DRABANSKI, HERROLD, KIEFER, RITCH, SCHACHT, and others.

ANESTHESIOLOGY

Professor: SADOVE (Head of Division).

Associate Professors: GITTELSON, LYONS (*Emerita*).

Assistant Professors: BALAGOT, LEVIN, SCHIFFRIN, SHIMA, STAFFORD.

Research Associate: LINDE.

Instructors: GLEAVE, HECKEL, KATZ, KOWALSKI, KUKRAL, NELSON, REYES, RODRIGUEZ, ROSE, TENNANT.

Assistants: FERGUSON, FLORES, FUSCO, GAINES, HEHL, KEZDI, MORALES, NATOF, OTI, PAPRIKOFF, SIKSNA, SLUPIK, SMALL, SONIN, TORREY, VITRUNGS.

Required Courses — Third Year

362. **Principles of Anesthesia.** One hour each week for twelve weeks; W. SADOVE and others.

Required Courses — Fourth Year

358. **Clerkship.** Given as part of Surgery 358. The student is assigned to anesthesia full time for one week; under supervision, he gives the anesthetic to patients in the operating room. F, W, and Sp. SADOVE and others.

Student Resident Hall



OCCUPATIONAL THERAPY

Occupational therapy is the use of directed activity as treatment. The therapist, working under the direction of a physician, contributes to a patient's physical and mental recovery or adjustment to chronic disability. This treatment assists the patient in his social adjustment and emotional development as well as his physical restoration. Through the use of creative and manual activities such as arts, crafts, recreational activities, music, and drama, the occupational therapist plans activities to meet the individual needs of the patient.

The curriculum in occupational therapy offered in this college prepares its registrants to function in the following areas: medicine, neurology, orthopaedics, pediatrics, physical medicine, psychiatry, and surgery. Members of the faculty of the above departments as well as those of pathology and bacteriology provide instruction which orients the occupational therapy student to these fields and provides fundamental information essential to effective functioning.

A close correlation between didactic instruction and practice in planning and administering treatment is effected through supervised clinical experience obtained in the occupational therapy treatment units of the Research and Educational Hospitals. The head of each clinical service which utilizes occupational therapy is responsible for the direction of the treatment provided for patients committed to his care. He shares with the Head of the Department of Occupational Therapy the responsibility of affording and developing opportunities for the effective use of occupational therapy not only as treatment but as an educational medium.

Instruction in the function of occupational therapy in various treatment programs and its relation to other medical services is offered to junior and senior medical students, nurses, psychologists, and social workers.

Plan of Instruction

The course of study offered in occupational therapy leads to the degree of Bachelor of Science in Occupational Therapy. A minimum of 120 hours of semester credit or 180 hours of quarter credit, not counting the first two years of work in military science and physical education, is required for graduation.

The student registers for six semesters in the College of Liberal Arts and Sciences at Urbana and for four semesters in the College of Medi-

cine at Chicago. Advanced students may shorten the period of instruction on the Urbana campus by transferring accrued credits in basic cultural subjects from other accredited colleges. Due, however, to the close integration of classroom and clinical experience in Chicago, previous instruction does not reduce the registration time on that campus.

In Urbana the student devotes his time and study to the basic cultural and biological subjects, including anatomy, physiology, kinesiology, and psychology. He also receives instruction in therapeutic techniques, including such creative and manual activities as arts, crafts, music, dancing, drama, and recreation. A minimum of 90 semester credits, 70 of which are in required subjects, are earned before transfer to the Chicago campus. Through formal instruction in the various courses and through participation in Illi-Sota, the student occupational therapy association, the registrant is well launched on a professional career before being transferred to Chicago.

During the last four semesters, which are spent on the Chicago campus and in affiliated hospitals, instruction in clinical subjects is given by members of the faculty of the College of Medicine and instruction in theory of application related to the different treatment areas is given by a staff of registered occupational therapists. Information concerning allied fields is given by representatives of those respective professions. On the Chicago campus, the student averages eight hours a day at the college, dividing the time among study, lecture periods, and clinical experience. The clinical experience is procured in five occupational therapy units in the various branches of the University's hospitals. Four additional months are spent in other hospital affiliations which offer clinical experience in the treatment of tuberculosis and mental diseases.

Requirements for Admission

The curriculum in occupational therapy, leading to the degree of Bachelor of Science in Occupational Therapy conferred by the College of Medicine, is offered to men and women who are able to meet the requirements as listed below.

Preprofessional Curriculum. An applicant for admission to this curriculum must meet the following requirements:

1. He must be a graduate of an accredited high school and meet the general requirements for admission to the College of Liberal Arts and Sciences;

2. He must rank in the upper 50 per cent of his high school gradu-

ating class, or pass examinations given by the Student Counseling Bureau at Urbana;

3. He must be under thirty years of age;

4. A health examination given by the University Health Officer must be passed;

5. An interview is required with either the Associate Dean of the College of Liberal Arts and Sciences or the Head of the Department of Occupational Therapy.

All the above requirements must be certified to the Dean of Admissions before a permit to enter is issued, and should accordingly be arranged well in advance of the date the applicant plans to enter.

Professional Curriculum. The number of students admitted to the professional curriculum is limited by facilities in the College of Medicine. Selections for admission to this curriculum are made by the Committee on Admissions. Candidates are selected on the basis of scholastic record and such examinations and other evidence as the committee may require, and are notified of their acceptance or rejection prior to the beginning of their third semester of registration at Urbana.

Permission to pursue that portion of the work which is given at the College of Medicine is dependent upon the achievement in previous university work. A grade-point average of 3.5 is a minimum requirement. Eligibility is determined by the Admissions Committee of the Curriculum in Occupational Therapy after a careful study is made of all pertinent evidence. Other factors being equal, preference is given to candidates who are residents of Illinois.

Transfer Students. Transfer students must complete an interview as indicated in the general admission requirements, and they must also pass the physical examination. The results must be certified to the Dean of Admissions before a permit to enter is issued. Before being eligible for admission to the College of Medicine, students, in all but exceptional cases, must complete a minimum of two semesters in residence at Urbana. After admission by transfer, such students are governed by the same regulations applicable to other students in the curriculum.

Fees

Six Semesters at Urbana. During the first six semesters students in the occupational therapy curriculum are registered in the College of Liberal Arts and Sciences and are subject to all fees applying to the Urbana departments of the University. (For a complete list of fees, see

the Undergraduate Study catalog of the University.) The general fees required of full-time students each semester are as follows:

Tuition:

Residents of Illinois.....	\$ 65
Nonresidents	175
Laboratory, Library, and Supply Fee.....	11
(Charges for materials used in handicraft courses which are borne by the student vary according to the amount used.)	
Illini Union Service Charge.....	7
Hospital and Medical Service Fee.....	7

Four Semesters in Chicago. Students who are residents of Illinois pay a total of \$262 for the sixteen months of instruction received in the College of Medicine; nonresidents pay \$554 for the same period.

Curriculum

First Year (Urbana)

SEMESTER HOURS

Hygiene 104 — Personal and Community Hygiene.....	2
Rhetoric 101 and 102 — Rhetoric and Composition, or Division of General Studies 111 and 112 — Verbal Communication.....	6 or 8
Zoology 101 — General Zoology.....	5
Therapeutic Techniques ¹	7
Physical Education.....	2
Electives (foreign language, history, literature).....	8 to 10
Total.....	30 to 34

Second Year (Urbana)

SEMESTER HOURS

Occupational Therapy 100 — Occupational Therapy Orientation.....	2
Psychology 100 — Introduction to Psychology.....	4
Sociology 100 — Principles of Sociology.....	3
Therapeutic Techniques ¹	15
Physical Education.....	2
Electives.....	4 to 6
Total.....	30 to 32

Third Year (Urbana)

Hygiene 216 — Medical Terminology Correlated with Community Health Problems.....	2
Physiology 134 — Human Anatomy and Physiology.....	5
Physiology 235 — Kinesiology.....	3
Psychology 216 — Child Psychology.....	3
Therapeutic Techniques ¹	12
Electives (must include two hours of psychology).....	5 to 7
Total.....	30 to 32

¹ Designated courses selected with consent of head of department from art, home economics, physical education, and music.

Fourth and Fifth Years (Chicago)

(Sixteen calendar months)

QUARTER CREDIT

Bacteriology 324 — Bacteriology.....	1
Occupational Therapy 375, 376, 377, 378 — Theory in Different Fields of Occupational Therapy.....	11
Occupational Therapy 379 — Administration and Equipment.....	2
Occupational Therapy 380 — Community Services.....	4
Occupational Therapy 381 — Rehabilitation.....	4
Occupational Therapy 382 — Group Work and Activities.....	4
Occupational Therapy 383 — Application of Principles.....	9
Pathology 324 — Pathology.....	1
Clinical Lectures (Psychiatry 324, Neurology 324, Orthopaedic Surgery 324, Pediatrics 324, Physical Medicine 324, Medicine 324, Surgery 324).....	11
Clinical Experience.....	0
Total.....	47

Courses of Instruction

Associate Professor: WADE (Head of Department).

Assistant Professor: CLEMENT.

Instructors: DALLY, FULLERTON, HRUBY, LINDEN, SALMON, SCHAD, TIERNAN,
TWELMEYER, WERNER.

Assistants: COZZA, WHITE.

Participating from Urbana Departments: MAY I. MILLBROOK, G. C. WICKWIRE.

Those courses on either campus which are planned for occupational therapy students are listed below. Descriptions of other required courses of equal importance may be found in the Undergraduate Study catalog of the University. In the descriptions of the courses, the Roman numerals I and II indicate the first and second semesters at Urbana, while the letters F, W, Sp, and S indicate the fall, winter, spring, and summer quarters at Chicago. Credit for courses on the Urbana campus is shown in semester hours and on the Chicago campus in clock hours.

URBANA CAMPUS

Hygiene 216. Medical Terminology Correlated with Community Health Problems. Designed to introduce occupational therapy students to the field of medicine. Two approaches are made: a study of medical terminology and disease classification, and a study of public health problems. Instruction is given in first aid, and reports on current medical trends are required. I; 2 semester hours. Prerequisite: Hygiene 104. MILLBROOK.

Occupational Therapy 100. Occupational Therapy Orientation. History and development of professional aspects of occupational therapy; its scope and its relation to applied professions, and its function in the field of physical and mental adjustment. I, II; 2 semester hours. Prerequisite: Registration in occupational therapy curriculum. HRUBY.

Physiology 134. Human Anatomy and Physiology. A study of fundamental physiological functions of the human body and of anatomical structure with special reference to motion and locomotion. Prosected human cadavers are available for study, as well as models of the human body and other illustrative material. I; 5 semester hours. Prerequisite: Zoology 101 or consent of instructor. WICKWIRE.

Physiology 235. Kinesiology. Study of mechanics of bodily movement and analysis of skills used by the occupational therapist. II; 3 semester hours. Prerequisite: Physiology 134. WICKWIRE.

Therapeutic Techniques. Instruction in techniques in arts and crafts (design, leather, metal, plastics, textiles, home economics, and wood) and recreation (music, dramatics, physical education) which may be used as treatment. The major portion of the semester hours must be concentrated in one group with survey courses in the others. Registration in courses must be with the consent of the curriculum adviser. I, II; minimum 30 semester hours. Faculties of the Colleges of Agriculture, Fine and Applied Arts, Liberal Arts and Sciences, Physical Education.

CHICAGO CAMPUS

375. Theory of Occupational Therapy in Medical and Surgical Conditions. A detailed study of the function of occupational therapy as a treatment for medical and surgical conditions. Psychological reactions, treatment techniques and media, special problems and precautions are considered; the relation of occupational therapy to post-hospital rehabilitation plans. Thirty-six hours; F, W, and Sp. TIERNAN.

376. Theory of Occupational Therapy in Orthopaedics. Principles of occupational therapy in the treatment of the more common orthopaedic disabilities, considering both the psychological and physical restorative aspects. Experience in the application of activities as correlated treatment; instruction in joint measurement, crutch walking, and various methods of recording progress is stressed. Thirty-six hours; F, W, and Sp. WERNER.

377. Theory of Occupational Therapy in Pediatrics. A study of the application of child guidance principles in the occupational therapy treatment of the child suffering from physical disease or emotional disorders. Twelve hours; F, W, and Sp. SCHAD.

378. Theory of Occupational Therapy in Psychiatry and Neurology. A general orientation to the function of occupational therapy as a form of indirect

therapy in the treatment of psychosomatic, psychoneurotic, and psychiatric cases; the application of activities as treatment for specific types of psychoses and neurological conditions; methods of recording behavior; relation of occupational therapy to the post-hospital rehabilitation plan. Thirty-six hours; F, W, and Sp. CLEMENT, WADE.

379. **Administration and Equipment.** A study of the organization of modern hospitals and correlation of services therein. Administrative and equipment problems of an occupational therapy department. Each student plans, executes, and submits a detailed plan of an original piece of adjustable equipment. Sixteen hours of lectures; sixteen hours of laboratory; Sp. WADE.
380. **Community Services.** A study of the organization and scope of social services, public and private, utilized by the therapist; a survey course in medical and psychiatric social work. Twenty-four hours of lectures; field trips; Sp. CLEMENT and staffs of agencies.
381. **Rehabilitation.** A detailed study of the function of occupational therapy in the total field of rehabilitation; a review of the rehabilitation programs for specific disabilities; a consideration of the laws affecting programs; instruction in methods of job analysis; treatment of industrial disability cases. Twenty-four hours of lectures; field trips; F. CLEMENT.
382. **Group Activities in Occupational Therapy.** A consideration of the principles of group work as applied to the field of the physically and mentally abnormal; the presentation of varied activities from the group work viewpoint and the field of service in which it functions. Twenty-four hours of lectures; forty-eight hours of laboratory; W. Visiting lecturers.
383. **Application of Principles.** Lectures, case studies, and conferences under the direction of physicians and therapists during student's four months' affiliation in hospitals providing advanced instruction in orthopaedics, psychiatry, and tuberculosis. Fifty hours of lectures, conferences, and demonstrations; F, W, Sp, and S. Staffs of affiliated hospitals.

Clinical Lectures. Lectures by physicians and surgeons which include the etiology, outstanding symptoms, and general treatment of physical and mental disorders with emphasis on those phases of illness responsive to treatment through occupational therapy. This series embraces instruction in dermatology, medicine, neurology, ophthalmology, otolaryngology, orthopaedics, pediatrics, physical medicine, psychiatry, and surgery. (For descriptions of courses, see Bacteriology 324, Medicine 324, Neurology and Neurological Surgery 324, Orthopaedic Surgery 324, Pathology 324, Pediatrics 324, Physical Medicine 324, Psychiatry 324, Surgery 324.) Lecture and laboratory, 136 hours. Faculty of respective departments in the College of Medicine.

Statue of Apollo in the Central Court of the Campus of the Chicago Professional Colleges. Erected in 1946, this statue commemorates the founding of Alpha Omega Alpha, medical honor society, on this campus in 1902.



POSTGRADUATE DIVISION

The Postgraduate Division is organized as a branch of the Office of the Dean of the College of Medicine. The faculty consists of the faculty of the College of Medicine. The policy is to offer special departmental courses as well as general courses. Registration is limited and applicants must be properly qualified. From time to time announcements are made of courses, giving details of registration, numbers accepted, tuition fees, and similar information.

Ophthalmology

330. Postgraduate Course in Ophthalmology. A full-time course designed for those graduates who have completed their internships and wish to specialize in ophthalmology. This is preparatory for a residency in ophthalmology. It consists of the following major divisions: (1) basic sciences related to ophthalmology; (2) instruction in the use of ophthalmic instruments and didactic introduction to clinical ophthalmology; and (3) demonstrations of clinical pathology. There are approximately thirty hours of organized instruction each week, including lectures, dissection of the orbit, laboratory work in histology, pathology, bacteriology, and geometric optics, demonstrations, seminars, supervised instruction in refraction and animal surgery. The facilities of both the University of Illinois College of Medicine and the Illinois Eye and Ear Infirmary are utilized. Six months; S and F. Fee: \$500.

Otolaryngology

The following courses may be registered for individually or in groups, the time being arranged with the instructor. Additional hours may be scheduled with consent of the head of the department. Applicants must be graduates of a Class A medical school and present acceptable credentials.

340. Postgraduate Basic Curriculum. Provides a full-time basic curriculum of instruction for those intending to prepare for special practice. Usually nine months but may be extended to twelve by the addition of a three-month period of clinical work. 9:00 a.m. to 5:00 p.m. Fee: \$150 tuition and \$100 laboratory each quarter.

341. Principles of Otolaryngology. Lectures, demonstrations, cadaver dissection, surgical anatomy, animal and cadaver surgery, physiology, laboratory and photographic technic, histology and pathology, and seminar. Duration: Three months. Fee: \$150.

342. Bronchoesophagology. Consists of lectures, animal and cadaver work, and

actual experience in the bronchoscopic operating room and outpatient clinics. Includes indirect and direct laryngoscopy, bronchoscopy, and esophagoscopy. May also be scheduled separately by accredited specialists. Duration: Didactic and laboratory, two weeks. Fee: \$150. ANDREWS, FRIEDBERG, HOLINGER, JOHNSTON.

344. **Refresher Courses.** Brief review courses of one or two weeks in length covering the more important subjects of the specialty. Largely didactic. Held several times during the academic year as determined by need. Fee: \$75 a week.

Pathology

337. **Forensic Pathology.** This course is based on the postmortem studies of the bodies of persons examined by the coroner's physician. Methods of recording and evaluating results of the autopsy and the collection of specimens for toxicological and other investigations are emphasized. The course is designed to familiarize physicians, especially pathologists, with the problems of the forensic pathologist. In addition an opportunity is afforded for the study of tissues changed by naturally acquired disease processes. Hours to be arranged after conference with instructor; F, W, Sp, and S. Fee: \$100 each quarter. KEARNS and others.

Physiology

363. **Clinical Physiology.** (Extension course.) This course is intended to refresh practicing physicians on various aspects of applied physiology. Lectures and demonstrations. One hour each week; W and Sp. Fee: \$25. ALPERT, GREENBERG, HENRY, INGRAHAM, MARBARGER, REED, SCHWARTZ, SOUTH, WAKERLIN, WHITEHORN, YOUNG, and others.

Special Courses

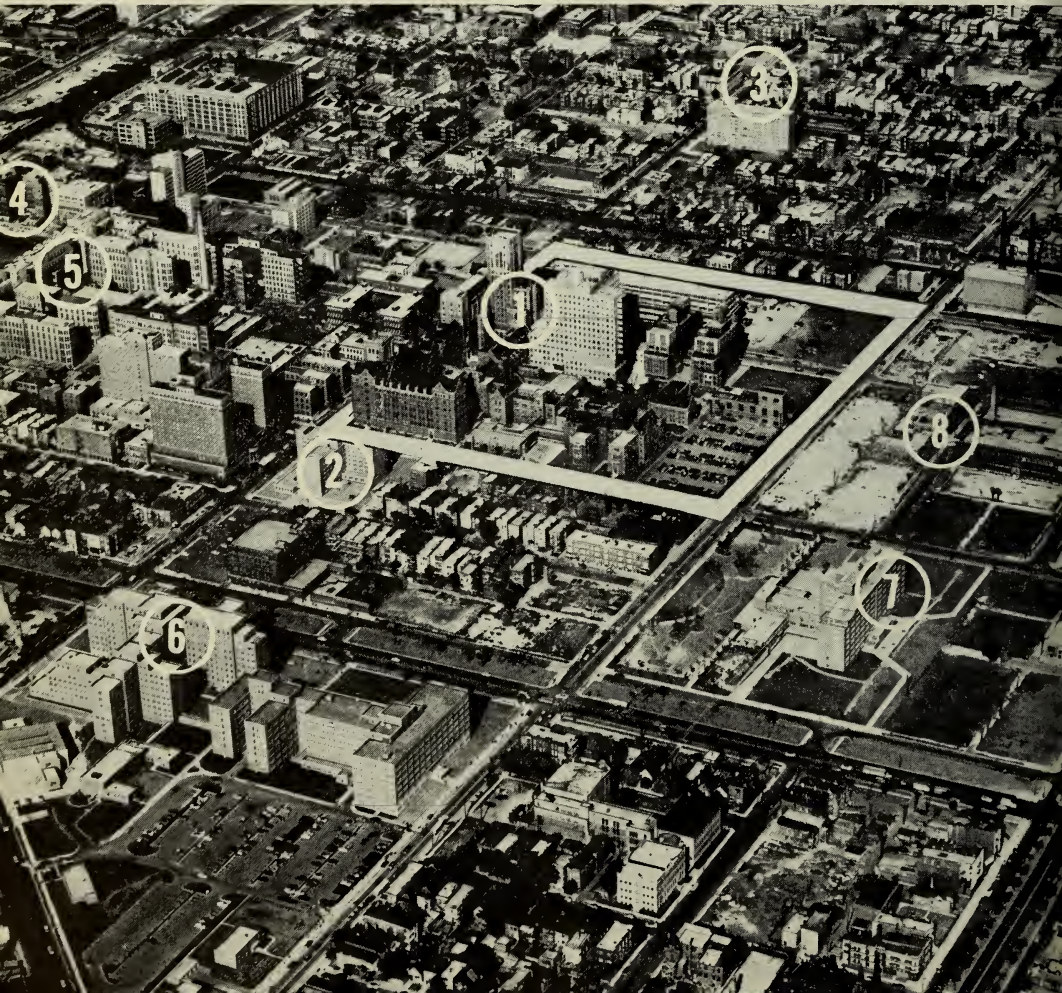
Courses in individual departments are made available by special arrangement. These courses are under the direction of the Dean and of the head of the department concerned. Inquiries should be addressed to the Postgraduate Division, Office of the Dean, College of Medicine, 1853 West Polk Street, Chicago 12, Illinois.

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1. Colleges of Medicine, Dentistry, and Pharmacy, School of Nursing, and Research and Educational Hospitals
2. University of Illinois Student Residence Hall
3. University of Illinois Staff Apartments
4. Presbyterian Hospital
5. Cook County Hospital
6. West Side Veterans Administration Hospital
7. Chicago State Tuberculosis Sanitarium
8. State Department of Public Health Laboratories

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 LEARNER, AARON, M.S., M.D., Clinical Associate Professor of Pathology
 LEARSY, CHARLES A., M.D., Clinical Instructor in Ophthalmology
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 LEE, JOHN C., M.D., Clinical Instructor in Psychiatry
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INDEX

- Administration, 12
 - officers, 7
- Admission, 15
 - advanced standing, 19
 - deposit required, 17
 - grade requirement, 18
 - Medical College Admission Test, 18
 - occupational therapy, 72
 - physical examination, 16
 - preference to Illinois residents, 18
 - renewal of applications, 17
 - selection of applicants, 16
 - special requirements, 17
- Alpha Omega Alpha, 26
- Alumni Association, 25
- Anatomy, courses, 30
 - faculty, 29
- Anatomy museum, 15
- Anesthesiology, courses, 67
 - faculty, 66
- Auditing fee, 21
- Bacon lectureship, 25
- Bacteriology, courses, 32
 - faculty, 31
- Beaumont prize, 23
- Berkelhamer scholarship, 22
- Biological chemistry, courses, 34
 - faculty, 33
- Borden research award, 24
- Building and laboratory service fee, 20
- Calendar, 4
- Central Laboratories, 13
- Chicago Memorial Hospital Women's
 - Auxiliary loan fund, 24
- Clinical science, courses, 34
 - faculty, 34
- Clinics, 12
- Committees, 7
- Courses, 29
 - occupational therapy, 75
 - physicians, 20
 - postgraduate, 81
- Crippled Children, Division of Services for, 14
- Davis lectureship, 25
- Deferring of fees, 21
- Degree requirements, 19
 - Bachelor of Science in Medicine, 19
 - Bachelor of Science in Occupational Therapy, 19
 - Doctor of Medicine, 19
- Deposits, applicants for admission, 17
- Dermatology, courses, 35
 - faculty, 34
- Division of Services for Crippled Children, 14
- Electrocardiography laboratories, 14
- Emergency loan fund, 24
- Emergency Service, 13
- Epilepsy Consultation Clinic, faculty, 43
- Examinations, physical, 16
 - special, 20
- Expenses, 22
- Faculty, 85
- Fees, 20, 73
- Gehrmann lectureship, 25
- General Assembly scholarships, 22
- Grade requirements for admission, 18
- Graduation requirements, 19
- Gynecology, courses, 44
 - faculty, 43
- Health Service, 16

- Hedblom lectureship, 25
- History of college, 11
- Honors requirements, 19
- Hospitals, 13, 14

- Illinois Eye and Ear Infirmary, 14
- Illinois Federation of Women's Clubs
 - scholarships, 23
- Illinois Surgical Institute for Children, 13
- Instruction, courses of, 29
 - plan of, 27
- Irish lectureship, 25

- Kellogg loan fund, 24

- Late registration fee, 20
- Lectureships, 25
- Library, 15
 - staff, 117
- Loan funds, 24
- Location, 11

- Medical College Admission Test, 18
- Medical illustration, courses, 36
 - faculty, 35
- Medical social work, 37
 - faculty, 37
- Medicine, courses, 39
 - faculty, 37
- Mooney scholarships, 22
- Museums, 15

- Neurology and neurological surgery,
 - courses, 42
 - faculty, 41
- Neuropsychiatric Institute, 13

- Obstetrics and gynecology, courses, 44
 - faculty, 43
- Occupational therapy, admission re-
 - quirements, 72
 - courses, 75
 - curriculum, 74
- faculty, 75
- fees, 73
- instruction plan, 71
- loan funds, 24
- scholarships, 23
- transfer students, 73
- Ophthalmology, courses, 46
 - faculty, 45
 - postgraduate courses, 81
- Organizations, 25
- Orthopaedic surgery, courses, 47
 - faculty, 46
- Otolaryngology, courses, 49
 - faculty, 48
 - postgraduate courses, 81

- Part-time students, fees, 21
- Pathology, courses, 50
 - faculty, 49
 - postgraduate courses, 82
- Pathology museum, 15
- Pediatrics, courses, 52
 - faculty, 51
- Pharmacology, courses, 54
 - faculty, 53
- Phi Mu Phi, 26
- Physical education, courses, 55
 - faculty, 54
 - program, 54
- Physical examination, 16
- Physical medicine and rehabilitation,
 - courses, 55
 - faculty, 55
- Physicians, special courses, 20
- Physiology, courses, 56
 - faculty, 56
 - postgraduate courses, 82
- Pi Kappa Epsilon, 26
- Postgraduate division, 81
- Presbyterian Hospital, 14
- Preventive medicine, courses, 58
 - faculty, 57
- Prizes, 23

Psychiatry, courses, 59

faculty, 58

Public health, courses, 62

faculty, 61

Radiology, clinic, 14

courses, 63

faculty, 62

Rea scholarships, 22

Recovery Room, 14

Recreational facilities, 15

Refunds of fees, 22

Research and Educational Hospitals,

13

Scholarships, 22

Sigma Xi, 27

prize, 24

Special examination fee, 20

State military scholarships, 23

Study-list change fee, 21

Surgery, courses, 65

faculty, 63

Transcript fee, 21

Trustees, Board of, 6

Tuition fee, 20

Unclassified students, fees, 21

Union Building, facilities, 15

service charge, 20

Urology, courses, 66

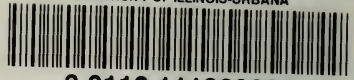
faculty, 66

Williamson scholarship, 23

Women's Auxiliary scholarships, 23

Yarros scholarship, 23

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